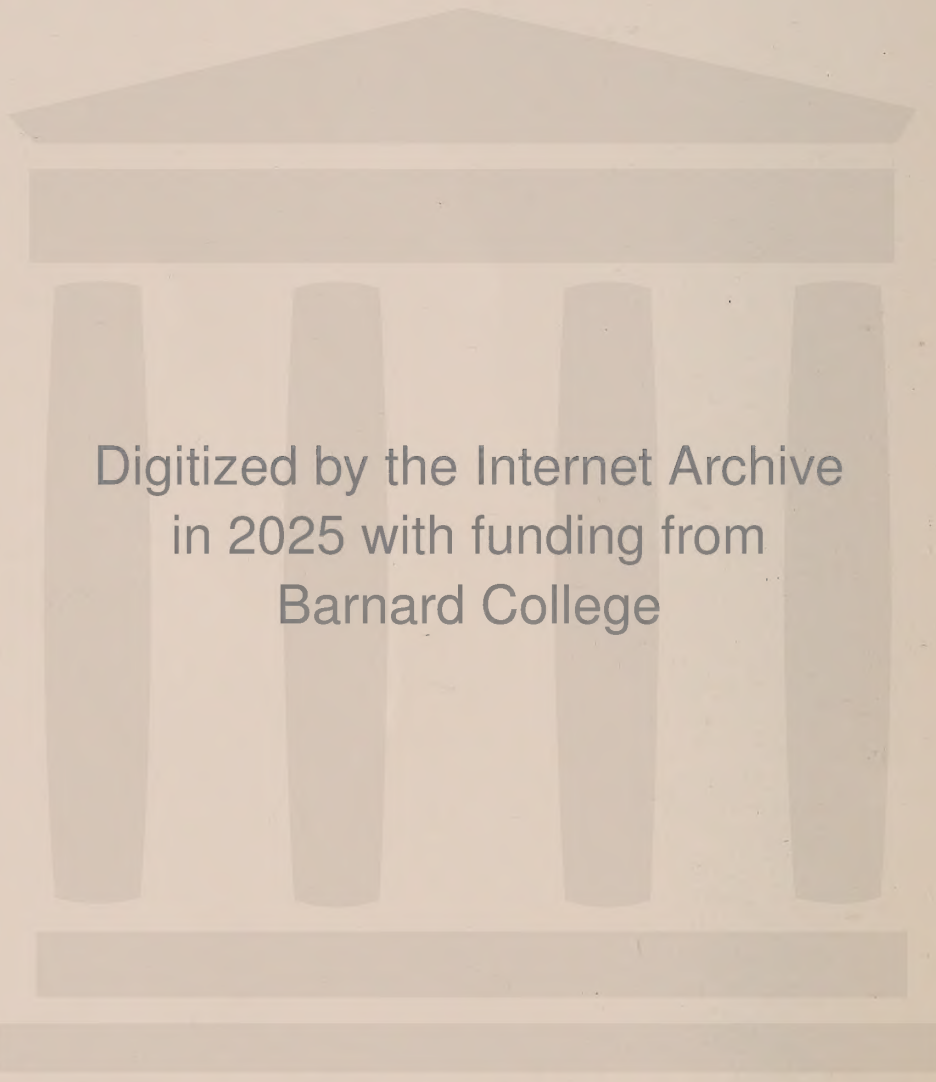




BARNARD



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Barnard College

BARNARD

The Undergraduate College of Liberal Arts for Women of Columbia University

1990 - 1991 CATALOGUE

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College Calendar 1990-91

AUTUMN TERM—ONE HUNDRED AND SECOND YEAR

First-year and transfer student registration	Aug. 30, 31 (Th, F)
Language Placement Examinations	Aug. 31 (F)
Upperclass Registration	Sept. 4,5,6 (Tu, W, Th)
Deferred examinations for students absent from May 1990 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Sept. 4,5,7 (Tu,W,F)
Classes begin 9 A.M.	Sept. 6 (Th)
Last day to submit work for courses in which grades of I were given in the Autumn Term 1989 and Spring Term 1990	Sept. 6 (Th)
Program filing. Last day to file Autumn Term programs 5 P.M.	Sept. 14 (F)
Last day to <i>add</i> a course	Sept. 14 (F)
Last day to file Spring Term Senior Scholar applications	Oct. 11 (Th)
Last day to file diploma name cards for the degree in February 1991	Oct. 11 (Th)
MIDTERM DATE	Oct. 23 (Tu)
Award of October Degrees	Oct. 24 (W)
Academic Holiday	Nov. 5 (M)
Election Day Holiday	Nov. 6 (Tu)
Required meetings for planning programs	Nov. 8 (Th)
Program planning and sign-up period for all students	Nov. 8-29 (Th-Th)
Major examinations for February graduates	Nov. 14-16 (W-F)
Last day to <i>drop</i> a course	Nov. 15 (Th)
Last day to file requests for pass/fail grades	Nov. 15 (Th)
Thanksgiving Holidays	Nov. 22-25 (Th-Sun)
Last day for first-year students and first-semester sophomores to file tentative Spring Term programs with the Registrar	Nov. 29 (Th)
Last day to withdraw from a course	Nov. 30 (F)
Optional reading period	Dec. 11-12 (Tu-W)
Required reading day	Dec. 13 (Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due.	Dec. 13 (Th)
Last day for payment of bill for Spring Term	Dec. 14 (F)
MIDYEAR EXAMINATIONS BEGIN	Dec. 14 (F)
Autumn Term ends	Dec. 21 (F)
Winter recess	Dec. 22-Jan. 13, 1991 (Sat-Sun)

SPRING TERM 1991

Registration	Jan. 14,15,16 (M, Tu, W)
Deferred examinations for students absent from December 1990 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Jan. 14, 15 (M, Tu)
Last day to submit to Office of the Registrar work from Autumn Term 1990 for removal of I	Jan. 15 (Tu)
Language Placement Examinations	Jan. 15 (Tu)
Martin Luther King Day Holiday	Jan. 21 (M)
Classes begin 9 A.M.	Jan. 16 (W)
Program filing. Last day to file Spring Term programs 5 P.M.	Jan. 29 (Tu)
Last day to <i>add</i> a course	Jan. 29 (Tu)
Last day to file diploma name cards for the degree in May 1991 or October 1991	Feb. 1 (F)
Award of February degrees	Feb. 13 (W)
Last day to submit 1991-92 Senior Scholar applications	Feb. 28 (Th)
MIDTERM DATE	Mar. 7 (Th)
Spring Holidays	Mar. 16-24 (Sat-Sun)
Last day to <i>drop</i> a course	Mar. 28 (Th)
Last day to file requests for pass/fail grades	Mar. 28 (Th)
Major Examinations for May and October graduates	April 3-5 (W-F)
Required meetings for planning programs	April 4 (Th)
Program-planning and sign-up period for all students	April 4-23 (Th-Tu)
Last date for sophomores to declare major choices	April 10 (W)
Last day to file application for 1991-92 financial aid	April 17 (W)
Last day to withdraw from a course	April 19 (F)
Last day for first-year students to file tentative Autumn Term programs with the Registrar	April 23 (Tu)
Phi Beta Kappa-Honors Convocation	April 25 (Th)
Required reading period	April 30-May 2 (Tu-Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due.	May 2 (Th)
FINAL EXAMINATIONS BEGIN	May 3 (F)
Spring Term ends	May 10 (F)
Baccalaureate Service	May 12 (Sun)
Presentation of Barnard Degree Candidates	May 14 (Tu)
Conferring of Degrees	May 15 (W)
Last day to file application for deferred examinations in Barnard courses	May 24 (F)
Last day to submit to Office of the Registrar work from Spring Term 1991 for removal of I	June 7 (F)
First-year and transfer student registration	Aug. 29,30 (Th, F)
Registration for Autumn Term	Sept. 3, 4, 5 (Tu, W, Th)
Classes begin 9 A.M.	Sept. 5 (Th)

I. The College

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to New York City. Barnard is committed to the fundamental values of the liberal arts and sciences, and its curriculum reflects that commitment. The cultural and social resources of New York and the intellectual resources of Columbia University are as important a part of an undergraduate education at Barnard as the commitment to learning and scholarship that is everywhere apparent in the College environment.

Because the liberal education offered at Barnard is broad in scope and demanding, admission to the College is competitive. For those who are admitted, four years at the College present an extensive array of opportunities both to contribute to the community and to draw from it, and the College seeks to admit diversified groups of students who will benefit to the fullest extent from the Barnard experience. Barnard is a university college in an international city, and today the curriculum affirms and encourages extensive use of its vast metropolitan resources.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women.

Barnard College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that young women share in the opportunity for higher education. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan, highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site in Morningside Heights, and in 1900 was included in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and facilities, while sharing the instruction, the library, and the degree of a university.

BARNARD TODAY

Today Barnard has a faculty of over 270 men and women, outstanding teacher-scholars whose primary concern is the education of undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to 2,100; since 1893 Columbia University has awarded its degree to more than 25,000 Barnard students.

In 1988, Barnard College and Columbia University amended and extended their longstanding agreement for cooperation between the two institutions. Barnard is an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, as well as trustees, endowment, and physical plant. At the same time, Barnard and Columbia share resources, and Barnard and Columbia students thereby have open access to the courses offered by either institution and to each other's faculty, libraries and facilities. Barnard and Columbia students also share in extracurricular activities and daily life.

The College

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living.

THE LIBERAL ARTS CURRICULUM

Barnard's liberal arts curriculum includes a series of general education requirements—a program of courses that the Faculty believes will offer stimulating and enriching educational opportunities for all students, while at the same time permitting each to tailor the manner in which the requirements are fulfilled to suit her own propensities, strengths, and interests.

Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff or of the Office of the Dean of Studies, who supervises the work of the first and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the areas of concentration and other phases of college work.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the faculty.

THE FACULTY

The Barnard faculty consists of scholar-teachers who have long recognized that their teaching depends upon their scholarship and grows out of it. The range of the Barnard curriculum fairly reflects this understanding, both in its concentration upon the traditional disciplines of learning and in its innovative interdisciplinary programs. The scholarly commitment of the Barnard faculty is constantly shown, too, in the variety and quality of its many research projects, its books and articles in learned journals, its participation in academic societies, and its many different kinds of publication and performance. But its abiding achievement is a constant demonstration in the classroom of the binding ties of teaching and scholarship to each other which simply will not accept the possibility of any serious conflict between them. For in these central functions, Barnard's scholar-teachers honor the enduring values of their profession.

SPECIAL CONCERNS ABOUT THE EDUCATION OF WOMEN

The mission of Barnard College is the provision of undergraduate education of the highest quality in an environment that is particularly sensitive to the intellectual and personal needs of its women students. While Barnard College students enjoy a range of curricular and extracurricular opportunities with Columbia University, at Barnard they benefit from an atmosphere in which women currently comprise approximately 50% of the tenured faculty and are well-represented on all levels of the administration. These women serve as important role models for students, who in turn are encouraged to assume positions of leadership while on campus that equip them for similar roles later in life.

Acknowledging today's complex and changing climate for women, the Barnard Center for Research on Women exists to offer a wide range of programs. The Center strives to carry out research and present findings to the College community and to the public.

SPECIAL EDUCATIONAL OPPORTUNITIES

Barnard's location in America's largest and most diverse city and its affiliation with one of the nation's most distinguished universities make it possible for the College to offer some truly unusual educational opportunities. Some of these are formal programs, while others are resources tapped by students on an individual basis. The vast

The College

curricular resources of Columbia University are easily available to the student—including such academic areas as non-Western cultures and literatures, an extensive number of exotic languages, international studies, advanced scientific and technological studies, etc. Schools on Morningside Heights with which Barnard has formal programmatic relationships—each of which is described in more detail elsewhere in this catalogue—include the Juilliard School, the Manhattan School of Music, the Jewish Theological Seminary of America, the Union Theological Seminary, Columbia's School of Law, the School of Engineering, the School of International and Public Affairs, Teachers College, and the Graduate School of Architecture and Planning. Many other academic organizations—both within and outside the University—offer opportunities for research, study, studio experience, career internships, or other relationships, depending on the special needs and interests of the individual student.

THE CAMPUS

The Campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings face an enclosed courtyard.

Barnard Hall is just north of the courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Academic Computing Center on the first floor, the reference area, periodicals, microforms, and open book stacks on the second floor, and on the third floor, audiovisual facilities, and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences and mathematics. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including 600, 616, 620 West 116th Street, and 601 West 110th Street, all apartment buildings; Plimpton Hall, completed in 1968; and a newly renovated building at 49 Claremont Avenue.

Barnard Camp is a 20-acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

Columbia University is directly across Broadway from the Barnard campus.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature, coming from nearly every state and some fifty foreign countries. They represent diversity in background and training, and a mingling of economic, regional, and cultural strains that finds expression in the life of the campus. Every student belongs to a "house," a group that includes faculty and staff associates, commuting students, and residents. Each house plans its own informal gatherings, continuing programs, and special events.

The College

All Barnard students are members of the Student Government Association, which provides general leadership and advocacy for student organizations. Students, faculty, and administrators serve on college committees, sharing responsibility for policy recommendations in the areas of curriculum, housing, financial aid, orientation, and the library. The Student Government Association sponsors many extracurricular activities: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Student artists with a diversity of talents and interests collaborate to produce Winter and Spring Festivals.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities throughout the year for students, faculty, and staff to experience together the cultural, political, and social life of the City.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life. A Judicial Council of undergraduates, faculty, and staff recommends disciplinary action for non-academic offenses.

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors eleven women's varsity intercollegiate teams including Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the other undergraduate divisions of Columbia University have the opportunity to compete on all university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition. For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals and recreation. The program features badminton, basketball, bowling, fencing, indoor soccer, wiffleball, tennis, volleyball, open gym time, recreational swim, sports clubs, open weight room hours, and special events.

Barnard has a high retention rate of students, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel, and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 25% of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools (6-7%), law schools (7-9%), and business schools (1-2%). The rest, with the exception of fewer than 1%, obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.

II. Admission

Selection of Candidates

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and College Board scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard seeks students from diverse educational and cultural backgrounds and from many geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or handicap.

Freshman Application Procedures

Students are admitted to the first year class in September and, in limited numbers, in January. They must be at least fifteen years of age.

Application for admission to the first year class should be made by February 1 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions.

A nonrefundable fee of \$40 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

Secondary School Preparation

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

College Boards

Barnard requires all freshman candidates to take the College Board's Scholastic Aptitude Test (SAT) and three Achievement Tests, one of which must be in English composition or literature. These tests should be taken by January of the senior year. As early as possible, candidates should write **directly** to the College Board, Box 592, Princeton, New Jersey 08540 for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the tests must be received by the CB well in advance of the test. Students who require nonstandard administration of the SAT should consult with their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board to send official test scores to the Office of Admissions. The Barnard College code for this purpose is 2038.

Recommendations

Another important part of the application is the submission of three recommendations, one from the high school counselor and two from academic teachers of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

Interviews

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions (212-854-2014). Appointments are scheduled Monday through Friday from nine-thirty to twelve in the mornings and from two to four in the afternoons, and on Saturday mornings. For those who are unable to arrange interviews at the College, appointments can be made with Barnard Area Representatives whose names are listed on pages 284–292.

SPECIAL APPLICATION PROCEDURES

Early Decision

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the *Fall Early Decision Plan*, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the *Winter Early Decision Plan*, a candidate should submit a completed application, with all supporting credentials, by January 15 for notification of the Committee's decision no later than February 15. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the freshman class, an Early Decision student must submit a nonrefundable enrollment deposit following her decision to enroll. This deposit is applied toward total annual tuition and fees for the freshman year.

The Winter Early Decision Plan recognizes that some candidates may decide on their college preference later than others. The same criteria are used in the evaluation of applicants under both plans. The Committee on Admissions may choose to postpone decision on any EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year. Candidates admitted under the Early Decision Plan are obligated to attend Barnard and will not be allowed to defer their admission.

Centennial Scholars Program

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

The Program is limited to fifteen students in any single class, approximately eight to ten to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of a freshman student to the Program is based on the Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement, the College Board test scores, and evidence of advanced preparation. Consideration of an enrolled freshman or sophomore requires recommendations of faculty members.

Admission

For further information about the Centennial Scholars Program, please see page 34. Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests.

Deferred Enrollment

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Students admitted under the Early Decision Plan can not defer their admission.

International Students

Each year Barnard enrolls a number of international students. These students are expected to follow the same application procedures and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement Tests. International students who are considering Barnard are encouraged to communicate with the Director of Admissions well in advance of entrance so that the College may assist them with their plans.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

After enrolling at Barnard, international students receive assistance with academic placement from the International Student Adviser in the Office of the Dean of Studies.

Transfer Students

Barnard welcomes transfer students in the sophomore and junior classes each year. Application for admission with advanced standing should be made by **May 1** for admission in September and by **November 1** for admission in January.

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT and, if appropriate, the TOEFL, recommendations from the secondary school counselor and from the college dean or adviser, an official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked.

A strong record of not less than one year's work at an accredited college, foreign university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 18.

Visiting Students

Qualified students who are degree candidates at other colleges may apply for admission as visiting students (Other College Degree Candidates) for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

Readmission

Barnard students who have not been registered for one or two terms may request readmission by writing the Dean of Studies by **November 1** for the Spring Term and by **May 1** for the Autumn Term. Students who left the College in good standing are

Admission

normally granted readmission. A non-refundable fee of \$100 must accompany each application for readmission.

Resumed Education Program

Former Barnard students who wish to return to the College after an absence of at least five years to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Director of Advising and Services for Resumed Education Students in the Office of the Dean of Studies.

Admission with Advanced Placement

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) can be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	
Biological Sciences	4 or 5	3 pts.	(4½ pts. with review of lab notes) and exemption from BIO BC 1001
Chemistry	4 or 5	3 pts.	(5 pts. with review of lab notes) and exemption from CHE BC 1601
Computer Science	4 or 5	3 pts.	Exemption CSC W 1003
Economics	4 or 5	3 pts.	Exemption from either ECO BC 1001 or ECO BC 1002.
English	4 or 5	3 pts.	Exemption
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption
History	5	6 pts.	
	4	3 pts.	
Mathematics	4 or 5	Calculus A-B: 3 pts. and placement in IIA or B;	
	3	3 pts. if IIA or B passed. Exemption.	
	4 or 5	Calculus B-C: 6 pts. and placement in IIIA, B, or C;	
	3	3 pts. if IIA or B passed; 6 pts. if IIIA or B passed. Exemption.	
Music	4 or 5	3 pts.	
Physics	4 or 5	3 pts.	(4 pts. with review of lab notes) and one term of two-term physics sequence
Political Science	4 or 5	3 pts.	No credit toward the major.

No credit will be granted for a college course equivalent to AP courses for which AP credit has been awarded.

Other Degree Credit

Students who have satisfactorily completed courses before the first year at Barnard may apply for a maximum of 15 points of degree credit. The courses must be intended primarily for college students and taught at the college by members of its faculty. With the exception of Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree. Any course counted toward the high school diploma cannot receive degree credit.

III. Financial Information

Annual Tuition and Fees

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

Schedule of Annual Tuition and Fees

The following tuition and fees are required from all students for the Academic Year 1990-91 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	\$14,346
Partial program (1-11½ points)	478 per point
Excess program (over 18 points)	478 per point
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the director of the program in the Office of the Dean of Studies.	
Comprehensive Fee includes:	\$544
Health Service Charges (see page 27)	
Student Activity Charges	

The following fees are required from all students occupying college housing facilities for the Academic Year 1990-91.

Residence Charges

Brooks, Hewitt, Reid and Centennial Hall ring floors (board required—see schedule below)

All college housing (see schedule below)

Single occupancy	\$4,286
Multiple occupancy	3,818

Board Charges— Required of all those living in Reid and Centennial Hall ring floors and of most living in Brooks and Hewitt:

19 Plus Plan—19 meals per week—minimum requirement for all first year students in Barnard Housing	\$2,636
14 Plus Plan—14 meals per week	2,366
10 Plus Plan—10 meals per week	2,184
210 Plus Plan—210 meals during the year	2,184

Other fees —required if applicable

Application for admission	\$ 40
Registration in absentia (per semester)	100
Physical education —part-time students (per course)	478
Orientation fee—All first-year and transfer students entering in the Autumn Term	120
Senior fee—All graduating seniors	100
Course fee (per semester)	
French	10
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30

Financial Information

Laboratory fees (per laboratory course)	
Biological Sciences	\$35
Chemistry—General	28
Chemistry—Other	35
Bio-Chemistry	45
Computer Lab (per semester)	25
Environmental Science	15
Psychology	20

Payment of charges and fees

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn Term tuition is due August 1. The Spring Term tuition is due December 15. A payment received after these dates is subject to a late processing fee of \$75. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes a late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 or December 15, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

All charges and fees are subject to change at any time at the discretion of the Board of Trustees.

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

Deposits

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a non-refundable deposit of \$200 toward annual tuition and fees on or before May 8. An applicant for admission must pay a \$200 non-refundable tuition deposit upon acceptance of the offer of admission to Barnard College. New students requesting college housing must submit a non-refundable housing deposit of \$200 by May 8.

Returning students who are requesting housing must submit a housing deposit of \$200 by May 8. If the Office of Student Life is notified of a cancellation of the room request by July 1, \$100 will be refunded or credited to the student's account and \$100 will be forfeited. All returning "resident" students must pay the \$200 room deposit in person prior to the room lottery held in March (\$100 is non-refundable to those students who participate in the room lottery).

Deferred Payment

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in the Tuition Plan of New England, tuition plans offered by Knight Insurance Agency, Inc., and the payment plan of Academic Management Services, Inc. Information can be obtained from the Barnard Bursar.

Adjustment of Tuition for Changing Program of Study

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited with the excess only if the alteration in her program is made by September 14 (last day of program filing) in the Autumn Term and by January 30 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

Financial Information

Refunds for Withdrawal.

If a student withdraws during the College year the following amount of tuition and residence fees will not be refunded:

Tuition	\$200
Resident Fees	\$200

A pro-rata credit of remaining charges is made on a semester-by-semester basis in accordance with the following schedule:

Fees. All required fees are non-refundable after Autumn and Spring Term registration dates as noted in the College calendar.

Tuition. Full credit except deposit will be given up to and including the first Friday of the term. After the first Friday of the term, 10% of the net tuition will be retained by the College for each week or part of a week up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Residence Charges. Up to the first day of classes full credit except deposit (\$200) will be given. In the event of withdrawal from housing while still enrolled in the College, a student will forfeit 80% of charges during the first two weeks of classes. Thereafter the entire amount for the semester will be forfeited.

Optional Board Plan. Pro-rata credit from the date a change form is completed in the Bursar's Office. A \$50 service fee is charged to drop or change a current meal plan. Drops and changes in meal plans will not be permitted after the second Friday of each semester. Please note specific meal plan requirements (see page 16).

Safekeeping of Students' Funds

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks.

To cover immediate expenses, a student should have traveler's checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

Financial Aid

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin or handicap.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e., gifts, endowment, and general income, Barnard participates in the following Federal programs: the Pell Grant program, the Supplemental Educational Opportunity Grant program, the Perkins Loan program, the Stafford Student Loan program, the Parents Loan for Undergraduate Students program, Supplemental Loans to Students, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and State funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks, insurance companies and SHARE loan program.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.

IV. College Life

Barnard students soon discover that their classmates are among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents from nearly every state and some fifty foreign countries as well as those who live within commuting distance. Diversity is one of the few generalizations that can be safely made about Barnard students; a mingling of economic, regional, ethnic, and cultural groups is evident in campus life.

STUDENT GOVERNMENT AND CAMPUS ORGANIZATIONS

Student participation in the governance of the College and in shaping student life on campus is a time-honored tradition at Barnard. College Committees on which students, faculty, and administrators serve, recommend policy and procedural changes in such areas as curriculum, housing, and college activities. Students are the majority of members on Honor Board and Judicial Council. Two students serve as representatives to the Board of Trustees.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, more than 70 in all, include theatre and vocal music groups, ethnic organizations, language clubs, community service groups, and year book and literary magazine staffs. The student newspaper, *Barnard Bulletin*, is published weekly. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, and social events. The McIntosh Ticket Booth offers students the opportunity to attend professional dance, theatre, and opera in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lecture series, and performances during the school year.

Student activities are centered in McIntosh Student Center which houses the Student Government and organizations' officers. The Center also includes the student mail room, a snack bar, lounges, music practice rooms, dark room, computer publications room, pottery studio, bowling alleys, and the student store.

In the residence halls, student Hall Councils plan social events and establish certain policies and procedures for use of public spaces and rules of conduct for residents, other members of the community and guests.

There is also substantial cooperation between Barnard and Columbia groups. Many activities such as the University's chorus, orchestra, and radio station, enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia campus in Earl Hall encompass every faith and are open to all students. For more complete information, students should consult the *Student Guide* and inquire at either the College Activities Office or the Student Government Association office in McIntosh Center.

SPORTS AND ATHLETICS

The Physical Education Department offers an extensive recreation, intramural, and club sports program. Participation in a friendly competitive atmosphere is emphasized and activities are open to all members of the college community. The Intercollegiate Athletics program is operated in cooperation with Columbia University as a consortium in NCAA Division I and includes varsity teams in archery, basketball, crew, cross country, fencing, indoor and outdoor track and field, soccer, swimming and diving, tennis, and volleyball.

Students have excellent facilities available for recreation and intercollegiate team practice and competition. Barnard facilities include a swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall, and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and

College Life

athletic facilities of the University as well. The Dodge Fitness Center includes the Levien Gymnasium with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium, with an eight-lane, all-weather, NCAA-regulation running track, and practice fields. There are seven composition tennis courts and a modern tennis clubhouse; facilities for crew, and a spacious field house.

About thirty-five miles from New York, Barnard maintains a twenty-acre camp and lodge, Holly House, for both recreational and educational purposes. For additional information and fees, contact the Holly House Secretary, Alumnae Office, 221 Milbank Hall.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members. A more complete explanation of the system may be found in the *Student Guide*. A Judicial Council of undergraduates, faculty, and administrators recommends disciplinary action for non-academic offenses. Hall Councils comprising students recommend disciplinary action for violations of residence hall rules.

Each student who registers at Barnard agrees to maintain the Honor Code, which states:

We, the students of Barnard College, resolve to uphold the honor of the College by refraining from every form of dishonesty in our academic life. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, or to use any papers or books not authorized by the instructor, or to present oral or written work that is not entirely our own, except in such a way as may be approved by the instructor. We consider it dishonest to remove without authorization, alter, or deface library and other academic materials. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.

Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct are recommended by student, faculty, and administrative committees to the area Vice President, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in the *Student Guide*. All decisions may be subject to review and final disposition by the President.

Enrollment in the College, award of academic credit, and conferring of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and of administration and in College Committees.

HOUSING

Barnard strives to maintain as diversified a housing program as possible. Residential options include traditional dormitories, suite arrangements, and apartments in College-owned buildings adjacent to the campus. In a cooperative exchange with Columbia College, about 209 spaces are available for those who choose coeducational arrangements. Apartments have also been secured in a building off-campus which meets the standards for College-operated residences. In addition, some students live in independent housing they maintain in the campus vicinity. The College offers all incoming first-year students the opportunity to elect to live in College-provided housing. In all, about 90% of the student body live in College-provided housing and some 10% choose to live off-campus. Policies regarding eligibility for housing and manner of assignments are formulated by a College Housing and Campus Environment Committee with a membership of students, faculty, and administrators.

Eligibility

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies.
2. A student receives “Resident” classification and priority if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for College-assigned housing when they enter as first-year students. Students may consult an off-campus housing registry for help in obtaining accommodations near the College. Some dormitory rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.
4. A student is responsible for reporting any change in permanent address to the Registrar of the College, and to the Office of Student Life and for reporting any change of housing assignment to the Office of Student Life.

Assignments

Returning upperclass students are assigned rooms in College residences on the basis of a lottery and room selection. Incoming first-year students, readmitted upperclass students, and transfer students are assigned rooms by the Housing Office.

Requirements

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing,” which is given to students selecting College housing and which must be signed by them before they may accept an assignment.

Housing Facilities

The College provides in its residence halls supervision under the direction of the Office of Student Life. This includes resident directors, graduate and undergraduate student assistants, twenty-four-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, Reid, and Centennial Halls, or the “Quad,” at the south end of the campus, are operated as a single complex with space for about 930 students. Centennial Hall, opened in 1988, completed this residential complex and provides community amenities as well, including a cafe open until 1:00 A.M. Reid Hall and the first eight floors of Centennial Hall are all-female buildings housing first-year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass traditional dormitories. There are also eight wheelchair-accessible, modified suites located in Hewitt. The “Tower,” floors 9 through 16 of Centennial Hall, houses seniors and juniors in suites with lounges and kitchenettes.

“616” West 116th Street, an apartment-style residence directly across the street from the Quad, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and a bath.

“600” and “620” West 116th Street are College-owned buildings comprising student apartments of one to five single or double rooms with kitchen and bath, and apartments for community residents.

49 Claremont Avenue, a renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.

College Life

Plimpton Hall, an apartment-style dormitory on Amsterdam Avenue and West 121st Street, a short walk from the main campus, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath.

College Residence Hotel at 601 West 110th Street has a limited number of apartments leased by the College. This offers students the option to live off-campus, only six blocks down Broadway, in a building with College-provided supervision.

Board

The College offers all students meal plans, which include points that may be used in the newly renovated Hewitt cafeteria, McIntosh snack bar and Quad café. Meal plans (not points) may also be used at Columbia's John Jay cafeteria. All first year students and most residents of Brooks and Hewitt are required to be on a meal plan for the full academic year.

Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

Financial Aid for Room and Board

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who choose to live in College housing may receive financial aid for room and board.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women was founded in 1971 to express Barnard's longtime commitment to women and to show Barnard's enthusiasm for the new women's movement. Today the Center is a nationally recognized research institute that extends its resources to all members of the Barnard community as well as to the public. Through a wide range of programs, conferences, lecture series, and seminars, the Center publicizes the most advanced research feminist scholarship can provide.

An annual academic conference, *The Scholar and the Feminist*, has continued inquiry into the impact of feminism on traditional scholarship over the past twenty years. In recognition of their catalytic effect on the development of new research on women, the results of workshops are often published as scholarly and policy-oriented papers.

The Barnard Center for Research on Women also sponsors a number of other programs. The Reid Lecture brings to Barnard distinguished women in public life and the arts who have shown a commitment to other women. A series of monthly luncheon meetings focuses on significant women's issues with guest speakers drawn from all areas of life. A Women's History Seminar and a series of topical issues known as Conversations about Women, which attract students, faculty, alumnae, and members of the public, complete the regular offerings of the Center. To provide the results of the research and experience presented in the conferences and seminars, the Center publishes *The Barnard Occasional Papers on Women's Issues*, which includes papers given at the conferences and seminars the Center regularly presents.

The Center, a world-famous repository of material about women, maintains an expanding resource collection of over 11,000 books, articles, and special newsletters, and subscribes to over 100 feminist periodicals. It serves as a clearing house for current information on women's studies programs, research on women, women's professional and activist groups, and special events for women.

Located in 100 Barnard Hall, the Women's Center is open throughout the year and is available to journalists, researchers, writers, and any other member of the general public who wishes to use it.

V. The Library

Wollman Library and Other Library Resources

The Wollman Library occupies the first three floors of the Adele Lehman Hall. The main collection of more than 160,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A large collection of musical and spoken records, a wide selection of periodicals and journals, and a growing collection of instructional videotapes supplement the book collection. There are ample facilities for the use of records and videotapes, and the reading areas contain individual study carrels. The first floor houses a collection of material used in current courses.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the resource collection of the Center for Research on Women. A separate Chemistry Reading Room is located in Altschul Hall.

When the College is in session the main library is open seven days a week providing a full range of services. The Reference Department offers an instruction program to help each student develop efficient library skills. In addition to the standard printed research materials, the library provides many electronic information sources. Four state-of-art workstations support computerized periodical indexes and electronic texts such as the CD-ROM Oxford English Dictionary. Much of the library collection is included in Columbia University's on-line catalog. The newly established Dana Center houses additional micro-computer workstations to permit more extensive research instruction. The Media Services Department provides additional support for the instructional program and organizes the annual film and video festival, "Works by Women."

Barnard students also have access to Columbia University's libraries with over 5.5 million books, 3.5 million microforms, and over 58,000 serial and periodical listings, and to the libraries of Teachers College and Union Theological Seminary. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.

Barnard's students may use the Kurzweil Reader available through the Columbia University Library.

VI. Advising and Student Services

ACADEMIC ADVISING

Academic advising is coordinated by the Dean of Studies who oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 28) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions on the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard faculty.

Class Deans and Advisers, 105 Milbank, 854-2024

After being notified of acceptance to the College, each entering first-year student will receive a program form and the program guide from the Office of the Dean of Studies. The student selects courses for the Autumn Term and returns the completed program form to the Class Dean for first-year students who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Class Dean also assists the Dean of Studies in coordinating the academic advising of first-year students, participates in planning for first-year orientation with the help of a committee of upperclass students, and oversees other special programs for first-year students.

Assistance in planning courses of study is given to first-year students and sophomores by their academic advisers. Group meetings with advisers are scheduled during orientation and program-planning periods. For individual advising, students may schedule appointments in 105 Milbank and departmental offices. Group meetings with department chairs and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with her Class Dean, her adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance is her Class Dean.

While it is the student's responsibility to complete all degree requirements, the Senior Class Dean reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn Term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean directs the planning for commencement with the help of class officers and the Commencement Committee.

Transfer Advisers, 104 and 105 Milbank, 854-2024

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled late in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

Other College Degree Candidates, 104 Milbank, 854-2024

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for course work to be completed at

Advising and Student Services

Barnard. Program-filing and registration are guided by a dean in the Office of the Dean of Studies.

International Student Adviser, 105 Milbank, 854-2024

Advice on situations arising from foreign student status is available in the Office of the Dean of Studies from the Assistant Dean designated to counsel international students.

Study Leaves, 105 Milbank, 854-2024

Students who wish to study for credit toward the Barnard degree at another accredited college, whether it be abroad or in the United States, are to apply for approval from the appropriate Assistant Dean in the Office of the Dean of Studies early in the semester before the period of enrollment at the other institution. Information and forms are available at 105 Milbank.

Pre-Professional Advising, 105 Milbank, 854-2024

Students who are interested in post-baccalaureate professional training may consult the appropriate pre-professional dean in the Office of the Dean of Studies for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional secretary maintains recommendation files and forwards materials required for applications. (See pages 35–36.)

Graduate School Advising, 105 Milbank, 854-2024, and departmental offices

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult faculty members in the appropriate departments and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

Higher Education Opportunity Program, 5 Milbank, 854-3583

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students receive instruction in English, mathematics, research, and public speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

Resumed Education, 105 Milbank, 854-2024

For advice on academic study and college services for students returning to Barnard after absences of five years or more to complete the A.B., or for graduates redirecting their careers and exploring new interests, the appropriate dean in the Office of the Dean of Studies may be consulted.

STUDENT SERVICES

Career Services, 11 Milbank, 854-2033

The Office of Career Services helps students and alumnae explore, define and implement career plans. To provide this service, the Director and staff have developed programs enabling Barnard women to gain work experience. The Federal College Work-Study Program is administered through this office. In addition, individual counseling on careers and related concerns is available. Students and alumnae may establish permanent recommendation files in this office for future employment.

A newsletter published by the staff informs students about career programs, workshops, internships and special opportunities. To aid students and alumnae in exploring career areas, the Office maintains a Contact File, which lists alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resume writing and job interviews, are conducted when the College is in session.

Advising and Student Services

To enable students to clarify vocational interests, the Career Services Internship Program provides semester, summer and January intersession opportunities in many professional fields. Interns gain valuable and often professional-level experience.

The Office, which is open twelve months a year, has contacts with many potential employers, who post full-time jobs regularly with Career Services. *The Job Seekers Newsletter*, which highlights full-time job opportunities, is issued every two weeks and is mailed to alumnae who request it. Corporate employers interview seniors on campus in the spring-semester Recruitment Program for major training program opportunities. Students use part-time and temporary job listings for both on- and off-campus jobs. The Barnard Babysitting Service, Barnard Bartending Service, and the Barnard Student Store are student-run services supervised by the office. They provide excellent managerial experience and create jobs for many students.

Program for Students with Disabilities, 7 Milbank, 854-4634

In 1978, Barnard established a program to provide disabled women with services which enhance their educational, pre-professional, and personal development. The Office for Disability Services (ODS) serves students with a broad range of disabilities, including visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions and learning disabilities. The Dean for Disabled Students and her staff work with other administrators and members of the faculty to assist disabled students in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. ODS publications include the *Barnard College Policy on the Admission of Students with Disabilities* and a services brochure, *What ODS Can Do for You*. The 504 Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College.

The buildings on the contiguous campus interconnect and are wheelchair accessible. Maps of the campus showing special features and access routes are available at the Office for Disability Services.

Financial Aid, 14 Milbank, 854-2154

Students who have questions or problems regarding financial aid are encouraged to make appointments with counselors in the Office of Financial Aid. Advice is available on applying for financial aid, budgeting, and computation of financial aid awards. For more detailed information, students should consult page 18.

Student Health Services, Lower Level Brooks, 854-2091

The Student Health Services, located in a complex of offices in Brooks Hall, Lower Level, provides diagnosis and treatment of all major and minor health problems and preventive health care in relevant areas. The medical staff is composed of a Director and Associate Director (internists), staff physicians, consultants in adolescent medicine, gynecology, and dermatology, nurses or nurse practitioners, and an administrative staff. The Mental Health Service is staffed by four psychiatrists, two psychologists, and a psychiatric social worker. The medical questionnaire and the physician's report, required of every student as prerequisite to enrollment, are filed with the Health Services. Complete examinations are performed for seniors in the Autumn Term and sophomores in the Spring Term. These examinations are not mandatory, but are recommended and are required if health certificates are needed. All students regardless of residence must immediately report any illness, however minor, to the Student Health Services.

Both the Health Service and the Mental Health Service are available to all Barnard students and are covered by the Comprehensive Fee. These services are not available during College vacations. Students are entitled to the following:

- 1) an unlimited number of visits to the staff physicians;
- 2) an unlimited number of visits to the gynecologists and dermatologist;
- 3) use of the Mental Health Service for consultation, evaluation, short-term treatment and outside referrals;
- 4) weekend and night-time coverage.

Advising and Student Services

All Barnard students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

- 1) hospitalization for illness or accident;
- 2) laboratory tests and x-rays;
- 3) consultations.

The following services are not covered:

- 1) home visits;
- 2) consultations when the College is not in session;
- 3) dental care (except for treatment of injury to sound natural teeth);
- 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult *Barnard Health Services*, *A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Service.

Resident Assistants

As part of the student support network, upperclass students in each residence hall are designated as Resident Assistants to answer questions on campus life for resident students, to provide liaison with other services, and to aid in residential programming.

Commuter Affairs

The Commuter Affairs Office is a place where commuters can receive information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations. The office initiates educational, cultural, and social programs designed to enrich commuter life.

Recommendations

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, and for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

Student Records and Information

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *Barnard College Student Guide*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name; class; home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

VII. The Curriculum

Requirements for the A. B. Degree

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. As parts of the 120-point requirement, all students must complete a major and must fulfill general education requirements.

Major Requirements

All students must complete the requirements of an approved major. The number of required semester-courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six such courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairs of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the double major that comprises all the course requirements of two majors with one integrating senior project, but the form designated for such a double major must be filed with the Registrar and the two departments.

General Education Requirements

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements are as follows:

FIRST-YEAR SEMINAR

First-year students are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of strong writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of First-year Seminars, with descriptive information and the names of instructors, appears on page 133. Transfers are not required to take the First-year Seminar.

FIRST-YEAR ENGLISH

First-year students must take the one-semester writing course ENG BC 1201 (Studies in Language and Literature), designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course with an Advanced Placement test score of 4 or 5. Foreign students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take this course but must have earned exemption or completed an equivalent course before graduation.

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FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester, or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin V 1201 and V 1202 or their equivalents must be completed.) The faculty recommends that (i) the third and fourth semesters be completed at Barnard; (ii) elementary courses be completed in the first year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required, whenever feasible, for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. A sequence that includes Italian V1301, V1302, and a year of literature will qualify.
2. Completion of Spanish BC 3105x for Spanish-speaking students (taken only with permission of instructor) will qualify on recommendation of the instructor.
3. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fulfillment.
4. Enrolled students who wish to qualify in German are advised to take German BC 1204 at Barnard, for they will otherwise be required to take the German Department's placement examination on completion of the other-college course.

Exemptions:

1. CEEB Achievement score of 750 or higher.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is *not* English (e.g., French, for alumnae of the Lycée Français).
5. For foreign students without English as their native language or the primary language of instruction at their high schools, satisfactory completion of English BC 1201 or one satisfactory year at Barnard.

Placement:

1. CEEB Achievement score of
650-749 fourth semester
550-649 third semester
400-549 second semester
below 400 first semester
2. For transfer students: the course following that of the last satisfactorily completed semester course. Formal withdrawal and reenrollment without credit may be required for students who are judged by the department to be unsuitably placed and in need of additional preparation or review.
3. By departmental examination, if there is no CEEB score or previous college transfer work.

Credit:

1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
2. No prior assurance of degree credit is given for summer or transfer work undertaken as a Barnard student. For work

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completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.

- 3. No credit is granted for work at a level already completed and credited.
- 4. No credit for the first semester of an elementary language is granted unless a more advanced course is completed.

LABORATORY SCIENCE

Students must complete one year of science (two semesters), with laboratory. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	C1103-C1104
Biology	BC 1001-1002
Chemistry	BC 1601 and BC 1602 BC 1601 and BC 3230 with BC 3328 C 1403-C 1404 with C 1500 and one additional laboratory course, e.g., BC 1702, BC 3328, or BC 3338.
Environmental Science	BC 1001, BC 1002
Physics	BC 1205-1206, BC 1206-1207, C 1021-1022, F 1003-1004, V 1003-1004, V 1103-1104, V 1305-1306, W 1003-1004, V 1753-1754 with lab AST C 1903-1904
Psychology	BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, BC 1156 (any two from different groups: see Major Requirements)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with department chair for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All students must take the Basic Math Skills placement test given at the Academic Computer Center during their first week of matriculation. (Students who score below the requisite level must take QUR BC 1001, Basic Math Skills, **before** satisfying the requirement.) All students must then take one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. After passing the placement test or QUR BC 1001, the requirement may be fulfilled by taking and passing any one of the following courses unless otherwise noted:

Astronomy	C 1103, C 1403
Chemistry	BC 1601, C 1403, C 1404
Computer Science	Any course carrying degree credit <i>except</i> W 1001
Economics	BC 2411
Environmental Sci.	BC 3015 and BC 3016 (<i>Both courses must be taken.</i>)
History	BC 3455
Mathematics	Any course carrying degree credit except F 0065
Philosophy	V 3411, V 3415, F 3410
Physics	Any course carrying degree credit except C 1001, C 1002
Political Science	BC 3345
Psychology	BC 1101
Quan. Reasoning	All Quantitative Reasoning courses <i>except</i> BC 1001
Sociology	V 3212

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Statistics

Any course carrying degree credit

Note: A student may fulfill the requirement if she receives AP credit for a course equivalent to one of the above. Such students must still take the Basic Math Skills placement test.

A student who fulfills the laboratory science requirement in Chemistry or Physics simultaneously satisfies the quantitative reasoning requirement.

DISTRIBUTION

Students must complete four semester-courses outside the major department, two each in the Humanities and in the Social Sciences. **One interdisciplinary course may be used to satisfy the requirement in each of the two areas.**

The distribution requirement in the Humanities may be fulfilled by taking courses outside the major field, in Art History, Philosophy, Religion, Oriental Humanities, Studies in the Humanities, Medieval and Renaissance Studies; or by taking courses in any literature, the history of literature or music, the history of dance; Humanities C1001 or C1002; or designated courses in Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by taking courses in History, Oriental Civilization, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology; or designated courses in Women's Studies; or Contemporary Civilization C1101 or C1102.

The qualifying courses that are listed in this catalogue bear the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. The chair of the appropriate Barnard department will determine the eligibility of all other courses.

Electives

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser. No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. (Of these, a maximum of four arts studio courses may be credited, and a student who takes more than two is required to validate each additional studio course with a course in art history. A maximum of six courses in instrumental instruction may be credited, and a student who takes more than two is required to validate each additional course of music lessons with a course in music theory, history, or literature. (See pages 185–191.) Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field. A minimum of 90 points of traditional liberal arts courses is required for the student who majors in such a field; for all other majors, a minimum of 102 points of such courses is required.

Physical Education Requirement

First-year students must complete two semesters of physical education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of physical education at Barnard unless they have completed two semesters at the previous school. Transfers are normally expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. The physical education requirement is in addition to the 120 academic-point requirement and is graded on a pass/fail basis.

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Length of Residence

Students are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered in *absentia*, with the permission of the Committee on Programs and Academic Standing.

Requirements for Transfer Students

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 29). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

Transfer Credit

Courses completed at other accredited colleges and universities which are similar in content and depth to Barnard courses may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until the second term or a more advanced course has been satisfactorily completed.

Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations governing summer study (see page 36).

First-year students with a record of prior course work taken as non-matriculants at an accredited college in the United States may request up to 15 points of transfer credit. Grades for this course work are included in the overall average.

Classification of Students

Students are classified as follows:

MATRICULATED	Points completed
First-Year	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more
Unclassified	transfer students who have not yet been assigned credit

NON-MATRICULATED:

- Other college degree candidates
- Barnard alumnae auditing courses
- Barnard alumnae taking courses for credit
- Any other student who is not a degree candidate

A degree candidate (*i.e.*, student who is matriculated) may not change her status to non-matriculated.

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Filing of Diploma Name Cards

The Diploma Name Card, available at the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and January. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar, page 6). Graduation ceremonies are held in February and May.



VIII. Other Academic Opportunities

Minor

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chair. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 32). To qualify for the minor, a course must be letter-graded A-C.

Senior Scholar Program

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as “Senior Scholar” on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points for the project. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean (x42024), who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. The student’s written application for the Senior Scholar Program is submitted to the Committee on Honors for approval. The deadline for application appears in the College Calendar (see page 6).

Centennial Scholars Program

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the Program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors, chosen in consultation with the Program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled first-year students and sophomores who distinguish themselves during their first terms at the College. For additional information about admission to the Program, see page 13.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student’s first year as a Centennial Scholar, she enrolls in CEN BC1889, “Working with Ideas,” an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters, and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium devoted to the public presentation of the project in the term of its completion. Dinner lectures, outings to museums, artists’ studios, and research laboratories and similar activities are additional features of the Program.

The Centennial Scholars Program is governed by a committee consisting of the following members:

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Duncan Foley, Co-Director
Professor of Economics

Barbara Miller, Co-Director
Milbank Professor of Oriental Studies

Vilma Bornemann, *ex-officio*
Dean of Studies

Dorothy Denburg, Academic Adviser to
Centennial Scholars,
Associate Dean of Studies

Serge Gavronsky
Professor of French

Leslie Lessinger
Professor of Chemistry

Timothy Halpin-Healy
Assistant Professor of Physics

Cary Plotkin
Assistant Professor of English

Doris Davis, *ex-officio*
Director of Admissions

Program Planning for Students Interested in Medicine or Dentistry

The basic pre-medical and pre-dental requirements are two semesters of introductory biology with one semester of laboratory, all at the 2000 level or higher (BIO BC 2001, BC 2002, and laboratory: BC 2003); two semesters of general chemistry and one semester of laboratory (CHE BC 1601, BC 3232); two semesters of organic chemistry and one semester of organic laboratory (Chemistry BC 3230, BC 3231, BC 3328); two semesters of physics with accompanying laboratory (PHY V 1003-1004; V 1103-1104; BC 1206-1207 plus W 1906-7)); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional chemistry laboratory (CHE BC 3338 or BC 3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (optometry, podiatry, physical therapy, and public health) as well as medicine and dentistry.

Pursuing a major in the sciences is not necessary for pre-medical students provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year), at which time students are advised to take the Medical College Admissions Test normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their academic advisers as early as possible and should start a file with the pre-professional secretary and consult with the pre-professional dean in the Office of the Dean of Studies (x42024) by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

Program Planning for Pre-Law Students

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Pre-Law Handbook*, an annual publication of the Association of American Law Schools. Copies may be consulted in the Office of the Dean of Studies, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-law students are encouraged to make themselves known to the pre-professional advisers (x42024) in the junior year or earlier. The LSAT should be taken in June or October of *the year prior* to expected entry to law school; of these, the June test is recommended because it allows for better planning. Applications for the LSAT and for

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the Law School Data Assembly Service (a required transcript analysis procedure) arrive in April each year and can be picked up in 105 Milbank any time thereafter.

Program Planning for Students Interested in Journalism, Architecture, Social Work and Business

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies, 105 Milbank, and in the Office of Career Services, 11 Milbank.

Credit for Summer Study

Students are expected to complete the work for the degree in eight academic terms. The granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, with some additional regulations. The maximum number of summer points that can be applied toward the degree for course credit is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student cannot receive degree credit for summer courses exceeding this maximum, she can fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard placement examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may find out in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring Term. Although the application may also be retroactive, the student places herself at risk of being denied degree credit if she fails to receive prior written approval from the Committee. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one five- or six-week summer session.
2. To be eligible for credit, courses normally must be of at least five weeks' duration.
3. Grades for courses taken in summer school must be letter grades in the A to C range; they are **not included in the cumulative grade point average**. These courses and grades will, however, be considered for admission to graduate or professional schools which normally require the submission of an applicant's transcripts from **all** the American and Canadian colleges she attended.

Study Abroad

Several options for study abroad are available to academically qualified Barnard students. The educational interests of each applicant are of primary concern to the staff of the Dean of Studies in acting on a student's request to study abroad for degree credit.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (Somerville College), Cambridge (Newnham College), the University of London (University College, London School of Economics, and Queen Mary College) and the University of Warwick. Admission to these colleges is competitive. Interested students should begin the process of applying to study abroad by consulting with the appropriate Assistant Dean in the Office of the Dean of Studies (x42024) no later than October of the sophomore year.

Barnard students who wish to study for degree credit in Paris may apply to the **Reid Hall** program which offers a varied and attractive curriculum in French language, literature, culture, art history, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, the student must have completed two years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term over 100 students take part in this program. Some are French majors, but most are not. The student body is composed of undergraduates from Barnard and Columbia, as well as

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those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris near Luxembourg Gardens. The administrative staff of Reid Hall assists students in planning academic programs and in finding housing accommodations. Bulletins and applications are available in 419 Lewisohn Hall (x42559) and in 104 Milbank. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a form available at the Office of the Registrar, 107 Milbank.

Barnard participates in the program of the **Intercollegiate Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard also offers the opportunity to study at the **University of Rome** for the junior year. Those who are interested should consult with the appropriate Assistant Dean in the Office of the Dean of Studies no later than February of the sophomore year.

Barnard is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Barnard also offers the opportunity for study in Kyoto, Japan, through its participation with Columbia in a consortium organized by Stanford and several other institutions.

Course credit for courses taken at institutions abroad, other than the Barnard program in Paris, is generally treated as transfer credit (see page 32).

Study at Jewish Theological Seminary

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of her major department chairman. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 32 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult the appropriate dean in the Office of the Dean of Studies at Barnard and at the Seminary's List College and must be separately admitted to each.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

Study at the Juilliard School

The Juilliard School at Lincoln Center offers opportunities to Barnard students for individual courses in dance and music. For a five-year program leading to the Barnard A.B. and the Juilliard M.M., rigorous auditions are required for which early application must be made. Students interested in these options may obtain further information and audition dates by consulting the appropriate dean in the Office of the Dean of Studies on their admission to Barnard or as early as possible.

Study at the Manhattan School of Music

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a cooperative program of cross-registration, musically qualified Barnard students have the opportunity to enroll in six semesters of private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors in music may take eight semesters of

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lessons. Students interested in those options should consult with the chair of the Barnard Music Department (x45096).

Special Academic Programs

Barnard offers a summer academic program for secondary school students, "Summer in New York: Barnard's Pre-College Program." Program information and applications are available in the Office of the Dean for Special Academic Programs (x48866).

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, School of Engineering, and the Law School. Details on specific programs are given below.

School of International and Public Affairs

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the M.I.A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year but, to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the Senior Class Dean at Barnard (x42024). Although the Dean of Studies determines application procedures and may nominate as many as four students, the final decision regarding admission to the joint program rests with the SIPA Review Committee. The nominees will arrange for an interview with two SIPA deans before the last day of classes in the spring term.

A Barnard student's eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and, if possible, a course in statistics by the end of the junior year. (No SIPA transfer credit is given for these courses.)

A Barnard student in the program must satisfy all Barnard degree requirements. Courses in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA course work, including a substantial part of the SIPA Core "A" Requirement. A typical program would include most of the 12 credits of courses at the 4000 level or above in the following areas:

1. International politics
2. International law
3. U.S. foreign policy
4. Foreign political processes (comparative politics)

A grade of B or better is required in courses to be credited toward the M.I.A. degree.

Admission to the joint program does not constitute admission to the School of International and Public Affairs. Formal application to the School is made in the autumn of the senior year, and final admission is contingent upon conferral of the A. B. degree and a satisfactory grade point average while in the joint program.

Graduate Program in Public Policy and Administration

Barnard College and the Columbia University Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the A.B. degree at the end of four years and the Master of Public Administration after one additional year.

Application to the program is made through the Office of the Dean of Studies by

Other Academic Opportunities

March 1 of the junior year. It is advisable to consult Professor Demetrios Caraley, Chair of Political Science at Barnard and senior professor in the M.P.A. program, as early as the sophomore year to plan an appropriate undergraduate course of study (x42158). Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in autumn of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard with an approximate grade point average of 3.5.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chair of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program a student completes at least 30 points including a workshop and policy specialization requirements.

School of Law

Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two outstanding juniors each year to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, 60 of which will have been completed at Barnard. She must have fulfilled all degree requirements except those for the major, which she must be able to complete together with the final 30 points at the Law School. Twelve of the 30 must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year with a score level that is in keeping with the median level of accepted applicants to Columbia Law School in that academic year.

Students interested in the program should consult with the appropriate pre-professional dean in the Office of the Dean of Studies early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December and February or March.

School of Oral and Dental Surgery

A limited number of qualified students may wish to enter the Columbia University School of Oral and Dental Surgery after three years of undergraduate work at Barnard. To be eligible for this program, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the School of Oral and Dental Surgery. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the School of Oral and Dental Surgery, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the appropriate pre-professional dean in the sophomore year for early program planning. Before her admission to the School of Oral and Dental Surgery, she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree.

School of Engineering and Applied Science

Barnard College and the Columbia University School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

Other Academic Opportunities

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses are taken in the School of Engineering and Applied Science. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, major, and physical education requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs in the Office of the Dean of Studies (x42024) to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the appropriate Dean at the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the bulletin of the school.

AUDITING

Student Auditing

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript; they are not graded; and they may not be subsequently converted to credit courses.

Alumnae Auditing

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.

IX. Registration

REGISTRATION PROCEDURES

Registration for New and Continuing Students

Instructions and materials for registration are enclosed in individual packets distributed in Altschul Hall to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar, page 6. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 16) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar, page 6. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see below), which must be completed by the published deadline (see College Calendar, page 6). If for some compelling reasons students must enroll in less than a full-time program, the written permission of one of the deans in the Dean of Studies Office is required.

Registration for Resumed Education Students

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines and payment of late registration fees.

Registration for Columbia University Courses

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses not cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are sectioned prior to registration. Barnard students wishing to register in such courses must take part in the sectioning procedure.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the Catalogue. All Teachers College courses which are not cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

STUDENT PROGRAMS

Program Filing

The list of courses for which the student is registered each semester is known as the student's program.

Each student is required to attend the appropriate program-planning meeting at the end of each semester (see College Calendar, page 6) and to consider seriously her selection of courses for the following semester.

Registration

During the program-planning period each first-year student and first-semester sophomore files her tentative program for the following semester with the Registrar. Each senior, junior, and second-semester sophomore is expected to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a *final* decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is no refund issued for courses dropped after the published deadline for program filing, and any part-time program filed after that date will be assessed full tuition. Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar, page 6). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

Adjustment of Fees and Refunds

For changing program of study. If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 14 (last day of program filing) in the Autumn Term and by January 30 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

Schedule of Classes and Room Assignments

Class times and room numbers are published in the **Directory of Classes** available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Registrar during program planning.

Courses with Limited Enrollment

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

Adding Courses

Courses may not be added after the deadline for filing academic programs (see College Calendar, page 6). Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signatures on either the program or add form of the class adviser (first-year student or sophomore) or the major adviser (junior or senior).

Dropping Courses

Courses may be dropped by submission of an Application to Drop a Course or Section, available at the Office of the Registrar. The form requires the signature of the class adviser (first-year student or sophomore) or the major adviser (junior or senior), and must be returned to the Office of the Registrar before the deadline published in the College Calendar (see page 6). Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline, the course will be recorded on the permanent transcript with the notation W (Withdrawal). No adjustment of fees (including any laboratory fees) is made for any course dropped after the deadline for program filing.

Registration

Attendance

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations.

A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

Policy on Religious Holidays

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration, deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn Term to all members of the faculty and administrative staff.

Withdrawal and Readmission

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 18.) A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies.

A student in good health who leaves with her record complete and who is in satisfactory standing is eligible for readmission. She must submit a written confirmation of her intention to return to the Dean of Studies by April 2 for the Autumn Term or November 1 for the Spring Term. A readmission fee of \$100 must accompany each application for readmission.

Exceptions to College Regulations

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

X. Examinations

Language Placement Examinations

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale (see page 29). A transfer student who has no CEEB score or previous college language courses must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credits.

First-year Students

First-year students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Class Dean advises all new first-year students of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or first-year students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar, page 6. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

Other Departmental Placement Examinations

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

Make-Up Examinations During the Term

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

Final Examinations

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period. The dates for final examinations, given at the end of each term, are published in the College Calendar, page 6. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar at least two weeks in advance of final examinations.

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The

Examinations

Honor Code further implies that any student or member of the faculty who has firsthand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour for a three-hour examination, she will be graded on the work she has completed.

Deferred Final Examinations

Deferred final examinations for Barnard courses, given in September and January (see College Calendar, page 6), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the Office of the Dean of Studies in person or by telephone (854-2024) on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by designated dates (see College Calendar, page 6). A payment of a \$10 handling fee for each examination must accompany the application.

Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

Examinations for Students with Disabilities

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Dean for Disabled Students about reasonable accommodations. Students should obtain copies of the *Test Accommodations Form* in Room 7 Milbank and return them at the beginning of each semester.

SAT, GRE, and LSAT Examinations

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.

XI. Grading and Academic Honors

Grading System

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
NC	No credit
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from course without official notification to Registrar

Pass/Fail grades are recorded for all students in certain courses, e.g., in physical education. Pass/Fail grades for individual students are subject to regulations described below.

Regulations that apply to grades of I (Incomplete) are outlined on page 47.

Grades of I or X that were recorded in 1980-81 or before will be changed to NC (no credit) if the missing work is not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work has been calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1.0
A = 4.0	B = 3.0	C = 2.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard only with probationary status determined by the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D are not normally counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

Grade Reports

The grade report for the Autumn Term is enclosed in the student's registration packet in January. At the end of the Spring Term, a cumulative grade report of all the student's work at Barnard is sent to the home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parents or guardian by filing a permission card with the Registrar.

Grading and Academic Honors

Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$2 per copy will apply (see Transcripts, page 48).

Pass/D/Fail Option

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form in duplicate to the Office of the Registrar before the deadline published in the College Calendar, page 6. The forms are available at the Office of the Registrar about two weeks before the deadline. **Under the Pass/D/Fail option the student is held responsible for fulfilling all the course requirements.** A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass/Fail grades for all students enrolled, e.g., ENG BC 1202.

Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g., ENG BC 1202). The P/D/F option cannot be elected for First-year English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is irreversible. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

Incompletes

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "early Incomplete" requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. A student must have the permission of her instructor to qualify for an Incomplete, and is required to use the form, which is a written guarantee of the terms set forth in it by the instructor.

Eligibility for Student Government Offices

To be a candidate for election to a Student Government Office, a student must be in good academic standing and free of disciplinary action for at least one year.

Eligibility for Intercollegiate Athletics

Any student at Barnard College, Columbia College, or in the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

Grading and Academic Honors

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- be in satisfactory academic standing;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree;

An eligibility blank must be filed with the Director of Athletics. The completed blank is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about athletic eligibility should be referred to the Dean of Studies, 105 Milbank.

Dean's List

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms of the academic year. Her grade point average is based on all her letter grades, **a minimum of 12 letter-graded points in each term**, exclusive of those courses graded P.

Transcripts

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$2 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$2 fee. There is no charge, however, for a transcript sent to a division of the University. Barnard will not send copies of transcripts from other schools; they must be requested directly from the institutions attended.

Honors

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if **both the overall and the Barnard grade point averages meet this requirement**. Grades for summer work are excluded from the grade point average. If the total number of points for A.P., baccalaureate, summer credit, for courses graded P or P* and for transfer grades unconvertible to Barnard equivalents exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

Phi Beta Kappa

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Senior Class Dean in the Office of the Dean of Studies (x42024).

XII. Courses of Instruction

The Curriculum

The Barnard curriculum consists of thirty-six departments and programs. At present, twenty-six departments and six interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1990-91; their listing in this catalogue is not a guarantee of their availability, and the College may revise its degree requirements from time to time.

Classes

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 16 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

Courses of Instruction

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn Term course numbers are followed by an x; Spring Term course numbers are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chair and the approval of the Committee on Programs and Academic Standing. However, **the first semester of elementary language, whether taken at Barnard or elsewhere, does not receive degree credit unless the second semester is completed.**

Divisible **Barnard** courses, which run throughout the year, are marked with a comma between the numerals (e.g., ENV BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (e.g., ECO BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. Hyphens and commas between course numbers for other than BC courses do not necessarily have the connotations described above for Barnard courses.

- BC— Barnard College
- C— Columbia College
- F— School of General Studies
- G— Graduate School of Arts and Sciences
- R— School of the Arts
- V— Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W— Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates

American Studies

Office: 418 Lehman Hall

Telephone: 854-2159

The program is supervised by the Committee on American Studies:

Assistant Professor of History
Beth Bailey (Director)

Professor of History
Robert A. McCaughey (Dean of the Faculty)

Professor of Art History
Barbara Novak

Professor of English
Robert G. O'Meally

Associate Professor of History
Rosalind N. Rosenberg

Assistant Professor of Anthropology
Nan Rothschild

Barnard's American Studies Program offers students a multi-disciplinary approach to the study of American culture that begins with a foundation of historical study and allows the student to design a major, within the Program's requirements and in consultation with her adviser, that is consistent with her interests. Faculty members who teach American Studies courses are specialists in American cultural, intellectual, social, and political history; American women's history; American art history; and American literature. Students are encouraged to utilize the resources of Columbia University and New York City, specifically the Center for American Culture Studies, Columbia's Oral History Program, various museums, and the New-York Historical Society, in their course work and research.

REQUIREMENTS FOR THE MAJOR

The American Studies major comprises twelve courses, which must represent the following distribution:

- I. 2 semesters of the American History survey course,— History BC 1051 and BC 1052. This requirement may also be met with equivalent courses or with a score of 4 (for one semester) or 5 (for 2 semesters) on the Advanced Placement examination. Majors are urged to complete this requirement by the end of their sophomore year.
- II. BC 3401, Approaches to American Cultural History. This is the Junior American Studies colloquium and is offered only in the Autumn Term.
- III. 1 course that is specifically concerned with methodological or theoretical issues bearing on the study of culture and society. The following courses are recommended; others may be substituted with the permission of the program director:

Anthropology V1002	<i>Interpretation of Culture</i>
Anthropology V3041	<i>Theories of Culture</i>
Art History W4645	<i>History of Postmodernism</i>
Dance BC 2566	<i>History of Dance</i>
English-Women's Studies BC 3144	<i>Minority Women Writers in the United States</i>
History BC 3071	<i>American Cultural History</i>
History BC 3455	<i>Reckoning With the Past: History, Historians, and the Computer</i>
History BC 3459	<i>Education in American History</i>
Library Science K 8005	<i>Oral History</i>
Philosophy V 3801	<i>Aesthetics</i>
Philosophy V 3803	<i>The Concept of Beauty</i>
Religion V 3502, 3503	<i>The History of Religion in America</i>

American Studies

Sociology V 1005x

Medical Care in Twentieth Century America

Sociology V 3213

Culture in Contemporary America

IV. 1 seminar that, by focusing on a particular historical period, group within American society, or cultural movement, utilizes a cultural approach to the study of the United States. The following seminars are recommended; others may be substituted with the permission of the program director:

Anthropology BC 3142 Sec. 3.
English BC 3140 Sec. 2.

The Study of Cities
Explorations of Black Literature: The Harlem Renaissance

History BC 3083, 3084

American Intellectual History

History BC 3444

Bourgeois America

History BC 3450

History of Childhood in America

History BC 3452

Origins of the Constitution

History BC 3460

Progressive Women

History BC 3478

The New Deal and the Modern State

History BC 3489

The Fourteenth Amendment and Its Uses

Religion V 3804 Sec. 19.

Afro-American Religious History

V. 1 course that provides a comparative perspective on American culture. The following courses are recommended; others may be substituted with the permission of the program director.

Art History BC 3971

Theories of Photography in the Twentieth Century

English BC 3185

Modern British and American Poetry

English BC 3187

American Writers and Their Foreign

Counterparts

English BC 3189

Post-Modern Literature

Oriental Humanities V 3200

Oriental Encounters: The American Experience

Spanish BC 2033

Women Poets of the Americas

Spanish BC 2004

Literature of the Americas

VI. 2 courses in American literature and/or American art history.

VII. 2 courses in the social sciences, only one of which may be in History.

VIII. 2 semesters of the Senior Seminar, BC 3703 and BC 3704.

REQUIREMENTS FOR THE MINOR

A student who minors in American Studies must take a program consisting of 5 courses. The courses must represent the following distribution:

1 semester of the American history survey course, either BC 1051, BC 1052, or the equivalent

BC 3401, Cultural Approaches to the American Past

1 seminar that, by focusing on a particular historical period, group within American society, or cultural movement, utilizes a cultural approach to the study of the United States

2 semesters of American literature and/or art history

COURSES OF INSTRUCTION

American Studies-History

ASH BC 3401x. Approaches to American Cultural History.

Colloquium on the theoretical approaches to cultural history, with special attention to attempts to define an American character and critiques of that process; cultural symbols, and the work of past and present writers,

artists and visionaries who struggled with the meaning of America.—B. Bailey.

4 points. Tu 6:10-8:00.

S

AMS BC 3703x, AMS BC 3704y. Senior Seminar.

Individual research on diverse aspects of American civilization, in consultation with instructors, and the preparation of the senior essay.—Staff.

American Studies

Enrollment limited to senior majors.
4 points. W 4:10-6:00.

AMS BC 3999x, AMS BC 3999y.
Independent Research.
Staff.
3 or 4 points. Hours to be arranged.

AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS:

Students should consult appropriate departmental listings for complete information about these courses:

Anthropology

V 1002	<i>Interpretation of Culture</i>
V 1007	<i>The Origins of Human Society</i>
BC 3142 Sec. 3.	<i>Study of Cities</i>
V 3002	<i>Political Anthropology</i>
V 3105	<i>Cities and Crime: Anthropological Perspectives on Urban Life</i>
V 3128	<i>Microbes, Magic and Medicine</i>
V 3041	<i>Theories of Culture</i>
V 3330	<i>Stratification, Inequity and Prejudice</i>
V 3712	<i>Lines That Divide: Race, Class, Gender and Ethnicity</i>
V 3713	<i>Ties That Bind: Institutions and Communities</i>
W 4354	<i>Archaeology of New York City</i>

Art History

BC 3679	<i>Modern Art: Modernism and the Mass Media, 1930-Present</i>
W 3123	<i>Women and Art</i>
BC 3971	<i>Theories of Photography</i>
W 4624	<i>American Painting, 1760-1900</i>
W 4645	<i>The History of Post-Modernism</i>

Dance

BC 2565, 2566	<i>History of Dance</i>
BC 3574	<i>Contemporary Choreographers and Their Works</i>

Economics

BC 2013	<i>Economic History of the United States</i>
BC 2014	<i>Topics in American Economic History</i>
BC 3044	<i>U.S. Industrial Policy</i>

English

BC 3140 Sec. 1.	<i>American Women Playwrights</i>
Sec. 2.	<i>Explorations of Black Literature</i>
BC 3144	<i>Minority Women Writers in the United States</i>
BC 3179	<i>American Literature Before 1865</i>
BC 3180	<i>American Literature, 1865-1914</i>
BC 3182	<i>American Literature, 1914 to the Present</i>
BC 3185	<i>Modern British and American Poetry</i>
BC 3187	<i>American Writers and Their Foreign Counterparts</i>
BC 3998 Sec. 7.	<i>Senior Seminar: American Literature (with instructor's permission)</i>
W 4540	<i>Post-Modern Texts and Theory</i>

History

BC 1051, 1052	<i>Survey of American Civilization</i>
BC 3052	<i>The Constitution in Historical Perspective</i>
BC 3056	<i>The American Civil Rights Movement</i>
BC 3067	<i>America Since 1945</i>
BC 3071	<i>American Cultural History</i>
BC 3074	<i>History of Sexuality in America</i>
BC 3082	<i>American Women in the Twentieth Century</i>
BC 3083, 3084	<i>American Intellectual History</i>

American Studies

BC 3085	<i>America in the 1960s</i>
BC 3444	<i>Bourgeois America</i>
BC 3450	<i>History of Childhood in America</i>
BC 3452	<i>Origins of the Constitution</i>
BC 3455	<i>Reckoning with the Past</i>
BC 3459	<i>Education in American History</i>
BC 3460	<i>Progressive Women</i>
BC 3478	<i>The New Deal and the Modern State</i>
BC 3489	<i>The Fourteenth Amendment and Its Uses</i>
Library Science	
K 8005	<i>Oral History</i>
Music	
V 2010	<i>Popular Music in the Americas</i>
V 2015	<i>Music in the United States</i>
V 2016	<i>Introduction to Jazz</i>
Philosophy	
V 3801	<i>Aesthetics</i>
V 3803	<i>The Concept of Beauty</i>
Political Science	
BC 3001	<i>Dynamics of American Politics</i>
V 3313	<i>American Urban Politics</i>
V 3316	<i>The American Presidency</i>
BC 3322	<i>The American Congress</i>
BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
BC 3327	<i>Colloquium on the Content of American Politics</i>
BC 3331	<i>Colloquium on American Political Decision Making</i>
BC 3335	<i>Mass Media and American Democracy</i>
V 3328	<i>Women and American Politics</i>
W 4311	<i>American Parties and Elections</i>
Religion	
V 3503	<i>The History of Religion in America (spring only)</i>
V 3508	<i>Religious Cults in Contemporary American Society</i>
Sociology	
V 1005	<i>Medical Care in Twentieth Century America</i>
V 3213	<i>Culture in Contemporary America</i>
V 3200	<i>Gender, Class, and Race</i>
V 3320	<i>Social Problems</i>
V 3303	<i>Female and Male: A Sociological Perspective</i>
V 3310	<i>Women and Deviance</i>
V 3555	<i>Sociology of Family Institutions</i>
Women's Studies	
BC 3111,3113	<i>Major Texts of the Feminist Tradition, I and II</i>
BC 3112	<i>Colloquium in Women's Studies</i>
BC 3117	<i>Women and Film</i>

Ancient Studies

Office: 215 Milbank Hall

Telephone: 854-4389, 2852

This program is supervised by the Committee on Ancient Studies:

Assistant Professor of Art History (Columbia)

Alexander MacGillivray (Representative for Columbia)

Professors of Classics

Helene P. Foley, Lydia Lenaghan (Representatives for Barnard)

Professor of History (Columbia)

William V. Harris

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least 4 courses in one geographical area or period;

courses in at least three departments (to ensure proper interdisciplinary training and experience);

the elementary sequence of a relevant ancient language;

the appropriate history course, and

at least the first semester of Ancient Studies V 3998, V 3999.

In some cases, a senior seminar in one of the departments may be substituted for Ancient Studies V 3998, V 3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

REQUIREMENTS FOR THE MINOR

No minor is offered in Ancient Studies.

Ancient Studies

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y. Directed Readings in Ancient Studies.

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s).—Staff.

Permission of the departmental representative required.

3 points. Hours to be arranged.

ANC V 3998x, ANC V 3999y. Directed Research in Ancient Studies.

A program of research in Ancient Studies. Research paper required. For 3999y, the topic must be submitted to the departmental representative and the appropriate adviser decided upon by November 15 or the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses.—Staff.

Permission of the departmental representative required.

3 points. Hours to be arranged.

A list of other relevant courses of instruction offered in 1990-91 may be obtained from the Representative for Barnard.



Anthropology

Office: 411 Milbank Hall

Telephone: 854-5402, 5417

Professors

Morton Klass, Abraham Rosman, Paula G. Rubel, Joan Vincent (Chair)

Assistant Professor

Nan A. Rothschild

Other officers of the University offering courses listed below:

Professors

Alexander Alland, Jr., Myron Cohen, Ralph Holloway, Harvey Pitkin, Elliott P. Skinner²

Associate Professors

Ross Hassig¹, Don J. Melnick, Katherine Newman¹

Assistant Professors

Terence D'Altroy, Theodore Bestor¹, Elaine Combs-Schilling, Libbet Crandon, Anne Galin, Glenn Stone

¹Absent on leave 1990-91

²Absent on leave Spring Term

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements.

REQUIREMENTS FOR THE MAJOR

Every major is urged to acquire a general knowledge of the four fields of anthropology (cultural anthropology, physical anthropology, archaeology and anthropological linguistics) and of their interrelationship. To this end, the student's program should be designed in consultation with her adviser, and as soon as possible after the declaration of the major. Continuing and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

ANT V 1002 *The Interpretation of Culture*

and one of the following:

ANT V 1007 *The Origins of Human Society*

ANT V 1008 *The Rise of Civilization*

ANT V 1010 *The Human Species: Its Place in Nature*

plus:

ANT V 3011 *Social Relations: Living in Society*

ANT V 3041 *Theories of Culture: Past and Present*

and one of the following senior research seminars:

BC 3868x-BC 3869y *Field Research in New York City*

BC 3871x-BC 3872y *Problems in Anthropological Research*

plus at least four other courses of the student's own choosing.

In consultation with advisers, programs will be designed so as to reflect the students' interests and plans—whether they intend to go on to graduate studies in anthropology, or expect to enter other fields, such as medicine, law, social work, and so on.

SENIOR ESSAY

All students majoring in Anthropology are required to submit an "Essay" of substantial length and scholarly depth. Such a paper will usually be written during the course of one of the senior research seminars or, under special circumstances, and with department approval, in one or two semesters of BC 3999 *Individual Projects*.

REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses:

ANT V 1002:

one of the following: V 1007, V 1008 or V 1010

plus three other Anthropology courses selected in consultation with the Chair.

The department also cooperates with related programs such as Foreign Area Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology (e.g. Architecture). Arrangements for combined, double, joint, and special majors are made in consultation with the chair.

Premedical students who wish to minor in anthropology should seek the advice and approval of the department chair.

COURSES OF INSTRUCTION

GENERAL COURSES

ANT V 1002x, ANT V 1002y. The Interpretation of Culture.

The anthropological approach to the study of culture and human society. Using case study from ethnography, the course explores the universality of cultural categories (social organization, economy, law, belief system, art, etc.) and the range of variation among human societies.

3 points.

x: Section I M W 4:45-6:00. A. Alland.

Section II Tu Th 1:10-2:25. A. Rosman.

Discussion hours to be arranged.

y: Section I M W 1:10-2:25. A. Alland.

Section II Tu Th 2:40-3:55. M. Klass.

Discussion hours to be arranged. S

ANT V 1007x. The Origins of Human Society.

An archaeological perspective on the earliest forms of human culture in the prehistoric

past. Topics include: hominids sharing food; people living in a variety of environments whose economies range from foraging to early agriculture; and the origins of sedentism and social complexity.—Nan Rothschild.

3 points. Tu Th 2:40-3:55. S

ANT V 1008y. The Rise of Civilization.

The rise of major civilizations in prehistory and protohistory throughout the world, from the initial appearance of sedentism, agriculture, and social stratification through the emergence of the archaic empires. Description and analysis of a range of regions that were centers of significant cultural development: Mesopotamia, Egypt, the Indus River Valley, China, North America, Mesoamerica, and Andean South America.—T. D'Altroy.

3 points. M W 11:00-12:15. S

Linguistics LIN V 1101x, y.

Introduction to Linguistics.

See *Linguistics listing*.

Anthropology

ANT V 1010x. The Human Species: Its Place in Nature.

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution. Specifically, Darwin's Theory of Evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and trends in human evolution.—D. Melnick.

3 points. M W 11:00-12:15.

S

TOPICAL COURSES

ANT V 3002y. Political Anthropology.

The development and comparative study of political structure and government in non-western societies.

3 points. Not offered in 1990-91.

S

ANT V 3005x. Peoples of Africa.

Survey of African cultures, with intensive analysis of selected peoples.

3 points. Not offered in 1990-91.

S

ANT V 3006y. Peoples of Southeast Asia.

Selective survey of traditional and changing Southeast Asian societies; emphasis on cultural, social, and ecological dimensions of tribal and peasant life.

3 points. Not offered in 1990-91.

S

ANT V 3007y. Peoples of Europe.

Intensive analysis of selected ethnographic studies reflecting cultural variation and change in European societies.—J. Vincent.

3 points. Not offered in 1990-91.

S

ANT V 3009y. Peoples of Culture of North Africa and the Middle East.

An introduction to peoples and cultures of the Middle East and North Africa, with an emphasis on Arabs and Islam. Focus on the role of patrilineality, Arabic, commerce, and Islam in the construction of Muslim societies.—E. Combs-Schilling.

3 points. M W 2:40-3:55.

S

ANT V 3011y. Social Relations: Living in Society.

Institutions of social life. Kinship and locality in the structuring of society. Monographs dealing with both literate and non-literate societies will be discussed in the context of anthropological fieldwork methods.—J. Vincent.

Prerequisite: An introductory anthropology course.

3 points. M W 11:00-12:15.

S

ANT V 3014x. Peoples of East Asia.

Introduction to the contemporary societies of China, Japan, and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies.—M. Cohen.

3 points. M W 11:00-12:15.

S

ANT V 3016x. Peoples of the Pacific.

Comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations; emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area.—P. Rubel.

3 points. Not offered in 1990-91.

S

ANT V 3017x. Caribbean Societies in the Global System.

From Columbus to Castro, the societies of the Caribbean as they have been influenced by powerful socio-cultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism.—E. Skinner.

3 points. M W 2:40-3:55.

S

ANT V 3018x. The Development of Urbanism: An Archaeological Perspective.

Development and maintenance of prehistoric urban societies, drawing upon examples from both the New and Old Worlds; relationships between developmental processes, environmental exploitation, urban-rural interactions, and the internal dynamics and structure of the city itself.

3 points. Not offered in 1990-91.

S

ANT V 3020y. Men's and Women's Speech.

Cross-cultural and cross-linguistic investigation of differences among men's and women's speech patterns as these are exemplified in literature, ethnographic texts, and actual utterances by speakers in various social settings; study of differences on the phonological, lexical, syntactic, and discourse levels; relation between cultural and linguistic patterns; variation across speakers and in time.

Prerequisite: Course V 1002.

3 points. Not offered in 1990-91.

S

Anthropology

ANT V 3021x. Sex Roles in Cross-Cultural Perspective.

Consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures. Belief about sex and the sexes as well as the presence or absence of sex antagonisms.

3 points. Not offered in 1990-91. S

ANT V 3024y. Changing Africa.

Major forces at work in contemporary Africa, and examination of changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent.—E. Skinner.

3 points. Not offered in 1990-91. S

ANT V 3025x. Law, Culture, and Society.

The judicial process in Western and non-Western societies. Contemporary issues in legal anthropology will be addressed, including the imposition of law, dispute settlement, legal realism discourse and ethnography, customary law, legal pluralism and the cultural defense.—J. Vincent.

3 points. M W 11:00-12:15. S

ANT V 3027y. Culture and the Individual.

Development of personality in various cultural contexts: child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change.

3 points. Not offered in 1990-91. S

ANT V 3028y. Culture Contact: Archaeological Ethnohistorical Approaches.

The course examines the contact period in the New World using both archaeological and historical data. Topics include the early encounters of the New and Old World, the impacts of European colonization, and the varied responses of indigenous people to the European's arrival.

3 points. Not offered in 1990-91. S

ANT V 3030y. Japanese Society and Culture.

Sociocultural factors influencing Japan's emergence as a highly urbanized society and examination of anthropological approaches to the study of complex societies.—T. Bestor.

3 points. Not offered in 1990-91. S

ANT V 3031x. Scientific Reasoning and Archaeology.

An introduction to scientific methods, and to the application of scientific reasoning within the study of archaeology. The emergence of scientific epistemologies since the Renaissance is considered, and the development of modern archaeology as a natural science and as a social science is treated in detail. Students will apply the principles of scientific reasoning to modern archaeological problems.

3 points. Not offered in 1990-91.

ANT V 3033y. Sociolinguistics.

Speech considered as a social activity; the speech community; socially motivated linguistic change; ethnography of speaking; regional and social dialects; sex linked speech; the strategic use of language in varying speech events; analysis of natural discourse.—A. Galin.

3 points. M W 5:40-6:55. S

ANT V 3034x. Ethnolinguistics.

Linguistics categories and their relation to culture; systems of folk-classification and their analysis; linguistic representations of time, space and other systems of orientation; analysis of myths, stories, and other graphic texts; relationships between language and thinking.—A. Galin.

3 points. M W 5:40-6:55. S

ANT V 3036x. Peasant Societies.

Introduction to preindustrial agrarian social systems; patterns of community organization and the relationship between the community and the state.—M. Cohen.

3 points. Not offered in 1990-91. S

ANT V 3037y. Societies in Transition.

Analysis of the changes that have taken place in rural and urban societies since the nineteenth century with emphasis on cultural and institutional relations between localities, regions and states. Ethnographies from Europe, America and the Third World.—E. Skinner.

3 points. Not offered in 1990-91. S

ANT V 3038x. Ethnicity and Race.

Analysis and comparison of ethnic and race relations in the context of social change and historical transformation, with particular reference to the United States, Europe, Africa and Asia.—J. Vincent.

3 points. Not offered in 1990-91. S

Anthropology

Anthropology-Women's Studies

ANW V 3039y. Women in Third World Development.

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies.—E. Crandon.

Prerequisite: An introductory Anthropology or Women's Studies course or permission of the instructor.

3 points. Not offered in 1990-91. S

ANT V 3041x. Theories of Culture: Past and Present.

Intellectual currents contributing to the development of anthropology as discipline. Theoretical writings of the anthropological ancestors as well as those of current practitioners will be considered.—P. Rubel.

3 points. Tu Th 10:35-11:50. S

ANT V 3044y. Symbolic Anthropology.

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—E. Combs-Schilling.

3 points. Not offered in 1990-91.

ANT V 3100x. Anthropology of Urban Life.

Evolution of cities: a cross-cultural view of kinds of urban formations; examinations within an anthropological context of various aspects of urban life.—T. Bestor.

3 points. Not offered in 1990-91. S

ANT V 3115x. Peasants, Class and Conflict in Central America.

Historical and ethnographic perspective on the countries of Central America. Exploration of why they constitute, despite their diversity, a "culture area"; and why they are such concern in contemporary American foreign policy. Topics to be covered include: ethnicity and class, dictatorship and democracy, capitalism and socialism, religion, land reform—as well as the social construction of ideologies.—L. Crandon.

3 points. Not offered in 1990-91. S

ANT V 3128y. Microbes, Magic, and Medicine.

Examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies.—L. Crandon.

3 points. Tu 4:10-6:00. S

ANT V 3201x. Introductory Survey to Biological Anthropology.

Human species in biological and evolutionary perspective with particular emphasis on the behavioral and morphological aspects of our evolution. Topics to be covered include evolutionary theory and basic population genetics, non-human primate behavior, fossil evidence for human evolution, human variation, and interactions of biology and culture.—R. Holloway.

3 points. Tu Th 4:10-5:25. S

ANT BC 3142x, y. Colloquium: Current Anthropological Theory.

Intensive analysis of selected theoretical approaches and issues in anthropology.

Enrollment limited to ca. 16 students.

4 points. S

1. Male and Female in Cultural Analysis.

An examination of male and female perspectives as they affect analysis of social structure, symbolism and political authority.—A. Rosman.

Spring W 2:10-4:00.

3. The Study of Cities.

The origins, growth and definition of cities are discussed, with particular attention paid to the spatial organization of cities and the development of neighborhoods. New York City is used as a laboratory for analysis, and each student will choose a part of the city to study.

Not offered in 1990-91.

ANT V 3204y. Dynamics of Human Evolution.

Seminar focusing on recent advances in the study of human evolution. Topics include: recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology.—D. Melnick.

Prerequisite: V 3201 or the permission of the instructor.

4 points. Not offered in 1990-91. S

Anthropology

ANT V 3215x. Biological Determination and Culture.

An examination and critique of biological determinism from the perspectives of history, folklore, biology, and anthropology.—A. Alland.

3 points. Not offered in 1990-91. S

ANT V 3500y. Colloquium: Problems in Structuralism.

Reading and research in anthropological theories of structuralism; review of works of Claude Lévi-Strauss, Edmund Leach, and others in relation to relevant work in linguistics, psychology, sociology and philosophy.

Enrollment limited to 20 students.

4 points. Not offered in 1990-91. S

ANT V 3700x. Colloquium: Anthropological Research Problems in Complex Societies.

Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from Africa, Latin America, Asia, Europe, and North America.

4 points. Not offered in 1990-91.

ANT V 3712x. Lines that Divide: Race, Gender and Ethnicity in Contemporary America.

Focus on qualitative, ethnographic studies of social stratification and division in the United States. Examination of the uses and abuses of concepts of race, class, culture, the culture of poverty, the underclass, gender differences, and ethnic affiliation in the literature of contemporary North America. — Katherine Newman.

Enrollment limited to 25.

4 points. Not offered in 1990-91.

ANT V 3713y. Ties that Bind: Institutions and Communities in Contemporary America.

An examination of the forms of identity that create a sense of belonging and sustain the formation of national and subcultural identities in American society. Qualitative studies of communities formed by the workplace, residence, age, religion and voluntary association.—Katherine Newman.

Enrollment limited to 25.

4 points. Not offered in 1990-91.

ANT V 3720x. Colloquium: Marxism and Ethnography.

Examination of some basic sources of Marxist social theory, their implications for anthropological theory and method, and selected ethnographies influenced by or relevant to them.—K. Newman.

Enrollment limited to 20 students.

3 points. Not offered in 1990-91.

ANT V 3760y. Colloquium: Stratification, Inequality and Prejudice.

A comparative exploration of the relationships, in complex societies, between economic specialization, social distancing, unequal opportunity, and ideologies of superiority/inferiority. The primary focus will be on “race” in Europe-derived societies and “caste” in India, but students will be expected to introduce other cases.—M. Klass. Prerequisite: ANT V 1002 or equivalent. Enrollment limited to 25.

4 points. Not offered in 1990-91.

ANT V 3905y. Aztecs, Mayas, and the Mesoamerican Past.

Traces the cultural history of ancient civilizations in Mexico and Central America from their origins to the Spanish conquest.—R. Hassig.

3 points. Not offered in 1990-91.

ANT V 3920x. Economy and Society in Prehistory.

This course examines the economic organization of prehistoric and ancient societies, from the earliest hunters and gatherers to the first empires. It covers topics concerned with production, consumption, exchange, and decision-making in early societies, e.g., subsistence practices, market and non-market exchange, specialized production and monetary systems, and the relationship between economic organization and political development.—T. D’Altroy.

Introduction to Archaeology or permission of the instructor required.

Enrollment limited to 15 students.

4 points. Not offered in 1990-91.

ANT V 3942x. Colloquium: Anthropological Study of Ritual.

The role of symbols in complex economic and political organizations in the commercial sector of London’s financial district, among Hausa merchants in Nigeria, in Islamic revolutions in the Middle East.—E. Combs-Schilling.

4 points. Not offered in 1990-91.

Anthropology

ANT V 3950y. Anthropology, History and Historicism.

Explores relations in contemporary anthropological theory and ethnography of historical anthropology, culture history, and the historicism.—J. Vincent.

4 points. Tu 2:10-4:00.

ANT W 4226y. Culture and the Plastic Arts.

The relationship of the plastic arts to other aspects of culture; the manufacture and use of carvings and masks; the meanings of design elements; the position of the artist in society. Emphasis on Melanesia, North America and West Africa.—A. Rosman.

3 points. Tu 9:00-10:50.

ANT V 3750x. Quantitative Thinking in Anthropology.

Strategies for framing analytic questions in anthropology and finding answers with quantitative methods. Emphasis is on descriptive statistics, exploratory data analysis, and microcomputer methods.—G. Stone.

4 points. Not offered in 1990-91.

ANT V 3830y. Male and Female: Monotheisms and Polytheisms Compared.

Examines basic definitions of male and female as established in dominant myths and ritual practices of Islam, Judaism, Christianity, Ancient Greece and Ancient Hawaii.—E. Combs-Schilling.

Limited to 12 advanced undergraduates.

4 points. Not offered in 1990-91.

ANT C 3830x. Colloquium: An Archaeological Perspective on Cultural Evolution.

A critical examination of theories dealing with the evolution of complex societies in prehistory. Topics include the development of urbanism, hydraulic agriculture, militarism, population pressure, and the role of religious ideology in the transformation from egalitarian to state-level societies.—T. D'Altroy.

4 points. M 9:00-10:50.

S

ANT W 4111x. Latin American Communities.

The kinds and distribution of small communities in Latin America, including peasant villages, haciendas and plantations, and towns. Their relation to the larger society as well as their internal workings.—R. Hassig.

3 points. Not offered in 1990-91.

S

ANT W 4114y. The Anthropology of Religious Belief.

"Religion" approached as a dimension of "Culture" — in terms of classic and contemporary anthropological theory and ethnographic evidence. Values, cosmologies, belief systems, rituals and religious practitioners will be compared and contrasted, and the interplay of religion and societal change will be addressed.—M. Klass.

3 points. Not offered in 1990-91.

ANT W 4150y. Ethnology of Native Americans.

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of Native American affairs and the Native American minority today.—P. Rubel.

3 points. Tu 2:10-4:00.

S

ANT W 4187x. Life in Rural South Asia.

Examination of the circumstances under which one out of every six people on Earth currently live: the course explores varieties of South Asian communities, religions, and economic and social systems — with particular attention to the manifestations of caste and Hinduism on the village level.—M. Klass.

3 points. Th 2:10-4:00.

S

ANT W 4236x. Ecological Studies in Anthropology.

The use of ecological principles and data in analysis of non-Western societies and the interpretation of culture change. Analyses aimed at understanding adaptation of human societies to their environment.—G. Stone.

3 points. Th 9:00-10:50.

S

ANT W 4346x. Laboratory Techniques in Archaeology.

Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc.

3 points. Not offered in 1990-91.

ANT W 4347y. Economic Anthropology.

Approaches to the study of resource allocation; production, consumption, and distribution in tribal and peasant societies. Contemporary theoretical issues and selected ethnographic accounts.

3 points. Not offered in 1990-91.

S

Anthropology

ANT W 4350y. Cultural Resource Management.

Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that public archaeology makes to research in the discipline.—N. Rothschild.

3 points. Not offered in 1990-91. S

ANT W 4352x. Museology.

Methods and procedures of artifact conservation, cataloguing and display. Use of collections for research purposes.—N. Rothschild.

3 points. Not offered in 1990-91. S

ANT W 4354y. Archaeology of New York City.

The archaeology of Greater New York City and environs, from earliest Palaeo-Indian times to the early colonization of New York. Lectures illustrated from original research material, with visits to museums, and field trips to local archaeological sites. No previous coursework in archaeology necessary.

3 points. Not offered in 1990-91.

ANT W 4625x. Anthropology and Film.

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.—P. Rubel.

3 points. Not offered in 1990-91.

COURSES FOR MAJORS

ANT BC 3868x-3869y. Field Research in New York City.

Seminar-Workshop on field research in New York City, culminating in the writing of individual Senior Essays. Lectures, discussions and demonstrations of research methods of anthropology followed by supervised field research on selected ethnographic topics in a variety of urban settings.—Staff.

4 points. M 2:10-4:00.

ANT BC 3871x-3872y. Problems in Anthropological Research.

Seminar on research on anthropological issues other than those that relate to New York City. Lectures and discussions of research methods will be followed by supervised research on problems of interest to the students, culminating in the writing of individual Senior Essays.—Staff.

4 points. M 2:10-4:00.

ANT BC 3999x,y. Individual Projects.

Research projects are planned in consultation with members of the department and work is supervised by the major's Research Essay adviser. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester.—Staff.

Permission of the instructor required.

4 points. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chairman and the major adviser. These courses are described in the Bulletin for the Graduate School of Arts and Sciences. As noted, graduate seminars may be used to satisfy the requirement of 2 colloquia and graduate area courses may be used to fulfill the area course requirement.

Architecture

Office: 310 Barnard Hall

Telephone: 854-8430

Assistant Professor

Donna V. Robertson (Program Director)

Adjunct Assistant Professors

Kunio Kudo, Scott Marble, Suzanne Stephens

Other officers of the University offering courses listed below:

Assistant Professor

Craig Barton (Columbia College Departmental Representative)

Adjunct Assistant Professors

Karen Fairbanks, Randall Ott, Eugene Santomasso, Madeline Schwartzman, Andrew Tesoro, Carol Willis, Michael Webb.

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research; students are required to choose a "cluster" of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete fourteen courses, at least five of which should be Barnard courses:

4 Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V	3103	<i>Perception and Design</i>
ARC V	3101	<i>Abstraction and Design</i>
ARC V	3201-ARC V 3202	<i>Architectural Design I and II</i>

5 Lecture courses from the following list:

ARC BC	3117	<i>Perceptions of Architecture</i>
ARC C	3301	<i>The Beginnings of Architecture</i>
ARC C	3302	<i>Architecture of the Western World</i>
ARH V	3080	<i>Pre-Columbian Art & Architecture</i>
ARH W	3150	<i>Art & Architecture of the Ancient Near East</i>
ARH V	3248	<i>Greek Art and Architecture</i>
ARH V	3250	<i>Roman Art and Architecture</i>
ARC A	6730	<i>American Architecture before 1876</i>
ARC A	4341	<i>American Architecture 1876-1976</i>
ARH C	3833	<i>Modern Architecture</i>
ARH W	4418	<i>Roman Baroque Architecture</i>
ARH G	4572	<i>French & Italian Architecture in the 18th Century</i>
ARC A	4330-4331	<i>Urban History I and II</i>
ARC A	4480	<i>Elements of Landscape Architecture</i>

2 Seminars to be taken in the junior or senior year:

ARC V	3901	<i>Senior Seminar I or II</i>
ARC BC	3431	<i>Architectural Criticism in the Essay Form</i>
ARH C	3990	<i>The Literature of Modern Architecture</i>
ARC BC	3443	<i>Principles of Japanese Architecture</i>

Architecture

Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

3 cluster courses are required, chosen in consultation with the adviser from an area of study related to architecture, such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a licensure in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC 3211
Physics V 1003
Mathematics V 1100

Advanced Architectural Design I
General Physics
Brief Calculus

Note: All studio, seminar, and upper level courses require the permission of the instructor at the first meeting of the class.

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 or V 3101, and 3 History/ Theory courses to be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

ARC BC 3117y. Perceptions of Architecture.
Introduction to various methods by which we look at, experience, analyze, and criticize architecture and the built environment; development of fluency with architectural concepts.—S. Marble.
Designed for but not limited to sophomores; enrollment beyond 20 at the discretion of the instructor.
3 points. M W 1:10-2:25.

ARC C 3301x. The Beginnings of Architecture.
Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—E. Santomaso.
Recommended in the first or sophomore year.
3 points. Tu Th 2:40-3:55.

ARC C 3302y. Architecture in the Western World.
Continuation of Course C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—E. Santomaso.
Recommended in the first or sophomore year.
3 points. Tu Th 1:10-2:25.

ARC V 3901y. Senior Seminar.
Readings, individual class presentations, and written reports.—D. Robertson and C. Willis.
Open to architecture majors only.
3 points.
Section 1 F 10:00-12:00.
Section 2 W 3:10-5:00.

ARC BC 3431x. Architectural Criticism in the Essay Form: Seminar.
Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present.—S. Stephens.
3 points. W 12:10-2:00.

ARC BC 3443y. Principles of Japanese Architecture: Seminar.
Investigations of traditional Japanese architecture and related arts, through study of the history, culture, building typologies, aesthetics/space concepts and formal analysis. Examples such as the Ise Shrine, Horyuzi Temple, Katsura, will be studied.—K. Kudo.
4 points. W 4:10-6:00.

Architecture

STUDIO COURSES

ARC V 3103x, V 3103y. Perception and Design.

Introduction to design through studies in perception and visualization, using drawings from nature and architecture. Emphasis on exploratory, inventive processes for the generation, development and representation of ideas in a variety of media.—M. Schwartzman and staff.

Recommended in the sophomore year.

3 points. Sec. 1 Tu Th 9:00-10:50.

Sec. 2 Tu Th 11:00-12:50.

ARC V 3101x, y. Abstraction and Design.

Introduction to design through analysis of abstract architectural space and form. Emphasis on the design process and principles of representation through architectural drawing and model-making. Students work in a studio environment.—M. Schwartzman and staff.

Recommended in the sophomore year.

3 points. Sec. 1 Tu Th 9:00-10:50.

Sec. 2 Tu Th 11:00-12:50.

Sec. 3 Tu Th 7:00-8:50 (y only).

ARC V 3201x. Architectural Design I.

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions and written analysis—D. Robertson and staff.

Prerequisite: V 3103 and V 3101.

4 points. M W 9:00-11:50.

ARC V 3202y. Architectural Design II.

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises.—D. Robertson and staff.

Prerequisite: V 3201.

4 points. M W 9:00-11:50.

ARC BC 3211x. Advanced Architectural Design.

Further exploration of the design process. Programs of considerable functional, contextual, and conceptual complexity are undertaken.—S. Marble.

Candidates for admission to the course are chosen by interview during registration. Eligible students are requested to consult the program adviser for Barnard College before the first meeting of class.

Prerequisites: V 3202 and permission of the program adviser.

4 points. Tu Th 3:00-5:50.

ARC BC 3099x, 3099y. Independent Study.

Prerequisite: permission of program adviser for Barnard College, in semester prior to that of independent study.

Art History

Office: 301 Barnard Hall

Telephone: 854-2118

Professors

Natalie B. Kampen (Women's Studies), Keith Moxey (Chair), Barbara Novak (Helen Goodhart Altschul Professor)

Associate Professor

Jane Rosenthal

Assistant Professors

Jonathan Crary¹, Sheila McTighe, Margaret S. Nesbit

Adjunct Professors

Maryann Ainsworth, Brian O'Doherty

Visiting Artists

Joan Snitzer, Ann McCoy

Other officers of the University offering courses listed below:

Professors

James Beck¹, Richard Brilliant³, Joseph Connors², Alfred Frazer, David Freedberg, Robin Middleton, Miyeko Murase, Stephen Murray, Esther Pasztory, Theodore Reff³, David Rosand, Allen Staley

Associate Professors

Suzanne Blier¹, Vidya Dehejia¹

Assistant Professors

Hilary Ballon, Barry Bergdoll², Alexander MacGillivray, John Russell², Janis Tomlinson¹

¹Absent on leave 1990-91

²Absent on leave Autumn Term

³Absent on leave Spring Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

The Department offers both a major in the History of Art and a major in Art History with a concentration in the Visual Arts. In each case the student chooses a faculty adviser who assists her in planning a program incorporating personal interests while meeting departmental requirements.

Requirements for the major in the History of Art: Nine Art History courses including at least one each in ancient, medieval, Renaissance, baroque and modern art, and two seminars. Both seminars may be taken in one of the five required periods. Art History BC 1001, 1002, *Introduction to the History of Art*, is strongly suggested as an introduction to the field unless a student has sufficient previous training. Each semester of BC 1001, 1002, counts as an elective toward fulfillment of the nine-course requirement but neither this, nor any other broad survey, can be substituted for a course in one of the five major areas. Of the nine courses required, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Oriental art and who will write their

Art History

senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.

A senior essay is required of the major. With the chair's permission, seniors may elect Art History BC 3999, *Independent Research*, for the senior essay but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

Students who plan to undertake graduate work should acquire a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

Requirements for the major in Art History with concentration in the Visual Arts: Seven Art History courses including:

BC 1001, 1002 *Introduction to the History of Art*

BC 3678 or BC 3679 *Modern Art*

BC 3986 *Art Criticism* or another advanced seminar

1 Interdisciplinary course selected in consultation with the major adviser

5 Studio courses (minimum)

A senior project is required. This may take the form of a critical essay dealing with contemporary art or an exhibition of the student's work with an accompanying paper defining the artistic character of the work.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of 5 lecture courses, including Art History BC 1001, BC 1002, and one each in three of the following periods: ancient, medieval, Renaissance, baroque, and modern.

COURSES OF INSTRUCTION

ARH BC 1001x, BC 1002y. Introduction to the History of Art.

An introduction to the art of the past with an emphasis on the variety of perspectives from which it may be studied. While mainly restricted to the art of Western Europe, the course will attempt to include reference to other cultures where possible. There will be no attempt at coverage. Works of art from different periods will be selected for discussion in depth. All members of Barnard's art history faculty will contribute lectures in their fields of specialization. Autumn Term: Ancient, Medieval and Renaissance. Spring Term: Baroque, Modern and Contemporary. —S. McTighe; guest lecturers: N. Kampen, J. Rosenthal, K. Moxey and others.
3 points. M W 1:10-2:25. H

ARH W 3030y. Arts of Africa, Oceania, Native America.

A survey of tribal art styles of Africa, Oceania and America with emphasis on function, iconography and historical relationships. —S. Blier.
3 points. Not offered in 1990-91. H

ARH V 3080y. Pre-Columbian Art and Architecture.

Survey of pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish conquest.—E. Pasztory.
3 points. Tu Th 10:35-11:50. H

ARH W 4077y. East and Central African Art and Architecture.

The course will explore the principal art and architectural traditions of Central, East, and Southern Africa. Emphasis will be given to understanding each art work within the framework of the particular social, cultural, and historical circumstances that gave rise to its production.—S. Blier.
3 points. Not offered in 1990-91. H

ARH W 3150x. Art and Architecture of the Ancient Near East.

Arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid period in the late first millennium B.C.—J. Russell.
3 points. Not offered in 1990-91.

Art History

ARH W 3180x. Art and Architecture of Ancient Egypt.

The principal monuments of Egyptian culture, from the beginnings of civilization in the 4th millennium BC to the conquest of Alexander the Great.—J. Russell.

3 points. Not offered 1990-91. H

ARH W 4127x. A History of Indian Art.

Commencing with the cities of the Indus civilization in the third millennium BC, this wide-ranging survey will take us through the history of Buddhist, Hindu, and Islamic monuments of the Indian subcontinent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka are considered.—V. Dehejia.

3 points. Not offered in 1990-91. H

ARH W 4125x. Buddhist Art.

Commencing with the stupas and cave-monasteries of the century before Christ, the introduction of the image of the Buddha is considered, and the further development of Buddhist art in India is examined. Extensions of this art into Sri Lanka, Nepal, Tibet, Afghanistan, Burma, and Indonesia are also considered.—V. Dehejia.

3 points. Not offered in 1990-91. H

ARH V 3201x. Arts of China.

Survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods; arts of Central Asia and India as they affect the arts of China.—D. Sensabaugh.

3 points. Tu Th 2:40-3:55. H

ARH V 3203y. Arts of Japan.

Survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods with emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and woodblock prints.—M. Murase.

3 points. Tu Th 4:10-5:25. H

ARH V 3245y. Art and Architecture of Greece in the Bronze Age.

A survey of the art on Crete, the Greek mainland and Cyprus, from the earliest times through the Bronze Age, with an emphasis on architecture, wall-painting and painted pottery.

3 points. Not offered in 1990-91.

ARH V 3247x. Greek Mythology in Ancient Art and Literature.

An analytic and comparative survey of major Greek myths in terms of their application and representation in Classical literature and art.

3 points. Not offered in 1990-91.

ARH V 3248x. Greek Art and Architecture.

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest.—R. Brilliant,

3 points. Tu Th 2:40-3:55. H

ARH V 3250y. Roman Art and Architecture.

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West.—A. Frazer.

3 points. Tu Th 2:40-3:55.

ARH BC 3351x. Early Christian and Early Medieval Art.

The origins of Christian art before Constantine and the subsequent development of architecture, sculpture and painting under the patronage of church and state in Western Europe from the 4th through the 11th century.—J. Rosenthal.

3 points. M W 2:40-3:55. H

ARH W 4315y. The Making of Medieval Art, 650-900 A.D.

The development of medieval art in the Germanic kingdoms of western Europe from the mid-7th century to the end of the Carolingian Empire.—J. Rosenthal.

3 points. Not offered in 1990-91.

ARH BC 3352y. Art of the Later Middle Ages.

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Murray.

3 points. M W 2:40-3:55. H

ARH W 4313y. English Romanesque Art.

Romanesque art in England with emphasis on painting, sculpture, and the luxury arts.—J. Rosenthal.

3 points. M W 4:10-5:25.

Art History

ARH W 4356y. Gothic Painting in France, 1200-1350.

Origins and development of French Gothic painting from the *Ingeborg Psalter* through the works of Pucelle and his circle.—J. Rosenthal.

3 points. Not offered in 1990-91. H

ARH W 3420y. Italian Sculpture during the Renaissance.

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.

3 points. Not offered in 1990-91. H

ARH V 3437y. Italian Renaissance Painting II: The Sixteenth Century.

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

3 points. Not offered in 1990-91. H

ARH V 3475x. Art and Culture of the Northern Renaissance.

Naturalism in the art of Campin, van Eyck, van der Weyden, van der Goes and others interpreted as the production of different types of "reality effect" rather than as a progression towards ever greater illusionism. An analysis of social meaning and the ideological transactions they enabled in terms of class and gender. A survey of early printmaking, woodcuts and engravings, with attention to the way in which "popular imagery" served to articulate and support the social hierarchy.—K. Moxey.

3 points. Not offered in 1990-91. H

ARH W 3525x. Renaissance Architecture.

A survey of major works of architecture, city planning, and architectural theory in Italy from 1400-1600 and the dissemination of Renaissance forms in France, England, and Spain. Key figures such as Alberti, Brunelleschi, Bramante, Raphael, Michelangelo, and Palladio; and issues such as the relationship between architectural form and political, economic, and social development will be discussed.—H. Ballon.

3 points. Tu Th 10:35-11:50.

ARH W 4480y. Art in the Age of the Reformation.

This course will trace the ways in which the cultural and social functions of artistic production in Germany and the Netherlands were transformed as a consequence of the dissemination of the ideologies of humanism and the Reformation.—K. Moxey.

3 points. Tu Th 10:35-11:50.

ARH V 3500y. Seventeenth Century Art in Italy, France, and Spain.

Painting and sculpture in Western Europe, 1580-1660. The Baroque style in relation to its cultural and political background, with emphasis on the major artists: Annibale Carracci, Caravaggio, Rubens, Bernini, Poussin, Velazquez, Hals, Rembrandt, and Vermeer. Brief exploration of the innovative architecture of Borromini and Bernini.—H. Ballon.

3 points. M W 1:10-2:25. H

ARH W 4360y. Spanish Painting of the 17th Century.

The painting at the court of Madrid and in the provincial capitals of Toledo, Valencia, Seville and Granada from 1600-1700. Artists to be discussed include: El Greco, Zurbaran, Ribera, Velazquez, Valdes Leal and Murillo.—J. Tomlinson

3 points. M W 5:40-6:55.

ARH W 4624x. American Painting, 1760-1900.

A consideration of some of the principal ideas behind the American painting tradition, with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science, and literature.—B. Novak.

3 points. Tu Th 2:40-3:55. H

ARH V 3748x. Eighteenth Century European Art.

The visual culture of 18th-century Europe in relation to new models of historical thought, theories of vision, transformations in urban and rural space, new social and political institutions, and the changing status of the individual. Artists studied include Watteau, Tiepolo, Chardin, Hogarth, Canaletto, Canova, Piranesi, Ledoux, Goya, and Blake. Some attention to texts by Wincklemann, Reynolds, Diderot, and Sade.—J. Crary.

3 points. Not offered 1990-91. H

Art History

ARH W 3600x. Nineteenth Century Art.

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements.—A. Staley.

3 points. *M W 4:10-5:25.* *H*

ARH W 3650y. Twentieth Century Art.

Major developments in 20th-century painting, sculpture and architecture with emphasis on modernist and avant-garde practices and their relevance for art up to the present.—Instructor to be announced.

3 points. *M W 4:10-5:25.* *H*

ARH W 4617x. Modern Art: The Avant-Gardes, 1890-1930.

This course will study the formation of modern avant-gardes in Europe as part of the general modernization of Western culture. The break with mimesis will be analyzed at length, questions about the new configuration of public and private space will be posed, the desire for language will be scrutinized, and the different modes of abstraction will be set into the context of everyday visual life. These abstractions would imply the translation of the work of art studied: painting, sculpture, architecture, photography, the applied arts, and film.—M. Nesbit.

3 points. *Tu Th 10:35-11:50.* *H*

Fee for films \$5.00. Tu 7:00-9:00 Film Screening.

ARH W 4840x. Art Since 1945.

A comprehensive survey of major trends in the visual arts since 1945 (Abstract Expressionism through Postmodernism) with an emphasis on American and European artists and movements.—J. Drucker

3 points. *M W 5:40-6:55.*

ARH W 4645y. The History of Postmodernism.

Examination of the historical and theoretical conditions for Postmodernism. Special attention will be paid to the relations between technologically based forms of culture (film, photo and video) and the surviving traditional forms.—M. Nesbit.

3 points. *Not offered in 1990-91. Fee for films \$30.00.*

ARH BC 3679y. Modern Art: Modernism and the Mass Media, 1930 to the Present.

The development of modernist painting in Europe and America from 1930 to the present with a study of the contemporary developments in film, photography and the mass

media image. Analysis of the two levels of culture and their exchanges, including the consequences for the criticism and theory of the image. Avant-garde and Hollywood feature-length films will be shown each week.—M. Nesbit.

3 points. *Tu Th 10:35-11:50.* *H*

ARH C 3020x. Drawings and Prints.

The changing styles and functions of drawings from the 15th century to the present and the development of printmaking as an expressive medium. Emphasis on such artists as Pisanello, Leonardo, Dürer, Michelangelo, Rembrandt, Goya, Picasso.—D. Rosand.

Prerequisite: Humanities C 1121, or ARH BC 1002x.

3 points. *Not offered in 1990-91.*

ARH W 4667x. Arts in Italy since 1945.

Introduction to Italy's most significant artists in areas of painting, sculpture, cinema and design from 1945 to present times. Seen against the background of early 20th-century art, in light of the recurring concepts of abstraction (structure/texture) vs. figuration (symbol/sign) with emphasis on theoretical discourses in contemporary philosophy, science and literature in its social context.—J. Beck.

3 points. *Not offered in 1990-91.*

ARH C 3883y. Modern Architecture.

Major currents in European and American architecture and city planning, 1789 to the present. Attention to major theoretical statements, sociopolitical content, and the evolution of the architectural profession.—B. Bergdoll.

3 points. *M W 10:35-11:50.*

ARH W 4563y. German Architecture 1750-1914.

The development of German architecture from Winckelmann and the Neo-Classical generation in Rome to the foundation of the Werkbund and the early work of Behrens. Particular attention to the political context and the attempts to define a national style, to major theoretical statements, architectural education and practice, and to the key figures: Schinkel, von Klenze, Semper, van de Velde, and Behrens.—B. Bergdoll.

3 points. *Not offered in 1990-91.*

Art History

AWS BC 3123y. Women and Art.

Discussion of the methods necessary to analyze visual images of women in their historical, racial and class context and to understand the status of women as producers, patrons and audiences of art and architecture.—N. Kampen.

3 points. Not offered in 1990-91.

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH C 3913y. Art in Periclean Athens.

Attic Greek art as an expression of the religious and cultural values of the Athenian state between the Persian Wars and the end of the fifth century B.C.—R. Brilliant.

4 points. Not offered in 1990-91.

ARH C 3915y. Art and Politics in Augustan Rome.

The Augustan state as a work of art and artifice: an exploration of major themes central to the artistic/political program of Augustus.—A. Frazer.

4 points. M 2:00-4:00.

ARH C 3933x. Medieval Art at the Cloisters.

Most meetings at the Cloisters. Consult departmental office for location of first meeting.—J. Rosenthal.

4 points. Not offered in 1990-91. H

ARH BC 3953x. The Art of Medieval Manuscript Illumination.

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

4 points. W 5:00-7:00. H

ARH C 3973x. Michelangelo.

—D. Rosand.

4 points. W 10:00-12:00.

ARH BC 3978x. "High and Low" Art in German Prints Around 1500.

This course will focus both on the producers of woodcuts and engravings as well as the audience for which they were made in order

to understand the ways in which the values they manifested served to structure social relations in this period. Among the artists to be considered are Master E.S., the Housebook Master, Martin Schongauer, Albrecht Dürer, Sebald and Barthel Beham, Erhard Schon, Baldung Grien, Lucas Cranach and Albrecht Altdorfer. — K. Moxey.

4 points. Th 4:10-6:00.

ARH BC 3979x. Pieter Bruegel.

A study of Bruegel's art as a site for the creation of social meaning rather than as the product of autonomous artistic creation. An examination of the ways in which his works functioned as cultural representations of the values of the social classes for which they were produced.—K. Moxey.

4 points. Not offered in 1990-91.

ARH C 3972x. Velazquez and Painting at the Court of Philip IV (1621-1665).

This seminar will examine the oeuvre of Diego Velazquez within the context of painting at the court of Philip IV. An exhibition of works by Velazquez from the Prado Museum to be shown at the Metropolitan Museum of Art will provide a focus for student research.—J. Tomlinson.

Prerequisite: Art History W 3603 or permission of the instructor.

4 points. Not offered in 1990-91.

ARH C 3949x. Colloquium: Cubism.

The development of Cubism from 1907 to 1914 and its relation to the major historical and intellectual events of the time. Discussion of various critical approaches from the first Cubist exhibition to the present.—T. Reff.

Prerequisite: at least one course in modern art.

4 points. Not offered in 1990-91.

ARH C 3970y. Picasso.

Historical context, personal content, artistic sources and stylistic development of Picasso's art. Emphasis on the study of original works in New York museums.—T. Reff.

Prerequisites: Junior standing, one course in 20th-century art, and permission of the instructor.

4 points. Not offered in 1990-91.

ARH BC 3977x. Modernism and Sexuality: The Problem of Gender in Matisse and Picasso.

A study of the problem of the perception and representation of the female image, especially the nude, in modern art, concentrating on

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the work of Matisse and Picasso.—M. Nesbit.

Prerequisite: Art History 3678x or 3679y. or permission of instructor.

4 points. Not offered in 1990-91. H

ARH BC 3981y. Surrealism.

Surrealist painting and the production of Surrealist collages, objects, photography and texts of the 1920s and '30s, with special attention to the writings of the circle around Andre Breton. Emphasis will be placed on the marvelous and the fetishistic.—M. Nesbit.

Prerequisite: permission of the instructor.

4 points. Not offered in 1990-91.

ARH C 3962y. Abstract Expressionism.

Historical and critical examination of the New York School in the 1940s-60s, with special attention to the painting of Gorky, de Kooning, Pollock, Hofmann, Newman, Rothko, Motherwell, and to the criticism of Rosenberg, Greenberg, and Hess.—D. Rosand.

Prerequisite: Junior standing, one course in modern art.

4 points. Not offered in 1990-91. H

ARH BC 3971y. Theories of Photography in the Twentieth Century.

A survey of the major theories of photography in Europe and America, and an examination of their relation to one another, as well as of their relevance to photographs.—M. Nesbit.

Prerequisite: Art History 3678x or 3679y desirable.

4 points. Not offered in 1990-91. H

ARH BC 3990x. Duchamp's Work.

Seminar focus is on the model for artistic work elaborated by Marcel Duchamp and its dissemination. Analysis of roles of the little magazine, the regular press and the art gallery as well as of the critical response to Duchamp's work.—M. Nesbit.

Enrollment limited to 15 students, preferably those having previous course work in modern art (BC3678-9 sequence). Some reading knowledge of French helpful.

4 points. Not offered in 1990-91.

ARH BC 3982y. The Literature of Art.

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading

critics and scholars (Baudelaire, Ruskin, Huizinga, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux, Kubler, Sontag). —B. Novak.

Enrollment limited to 16 students. Permission of the instructor required.

4 points. W 2:10-4:00. H

ARH W 3975y. Portraiture.

The motif of portraiture in Western art from antiquity to modern times. Discussion of principal motifs, scenes and means of expression. Short papers and reports, museum visits.—R. Brilliant.

4 points. Not offered in 1990-91.

ARH BC 3985x. Introduction to Connoisseurship.

Factors involved in judging works of art, with emphasis on paintings: materials, deterioration, damage, restoration, attribution; replicas, copies, imitations, and fakes, questions of relative quality. Meetings at the Metropolitan Museum of Art and the Pierpont Morgan Library.—M. Ainsworth.

Enrollment limited to 10 senior majors.

Permission of the instructor required.

4 points. F 10:00-12:00. H

ARH C 3993y. Introduction to Connoisseurship.

—D. Freedberg.

4 points. Tu 2:00-4:00.

ARH BC 3986y. Art Criticism.

Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism.—B. O'Doherty.

Enrollment limited to 15 students.

4 points. Not offered in 1990-91. H

ARH BC 3989y. The Art Film.

Examines the ways in which filmmakers approach the visual arts, using leading examples of films on art. Films on Gauguin, Van Gogh, Edward Munch, Jackson Pollock, Christo and others. Filmmakers include the Maysles brothers, Perry Miller Adato, Barbara Rose, Lucy Jarvis, Danny Lyon, Michael Blockwood and Brian O'Doherty. Papers and criticism will be part of the course work.—B. O'Doherty.

4 points. M 10:00-12:00.

Art History

ARH C 3968y. Still-Life Painting, 1850-1900.

Emphasis will be on Manet, Cézanne, Gauguin and Van Gogh.—T. Reff.
4 points. Not offered in 1990-91.

ARH BC 3999x, y. Independent Research.

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.
4 points. Hours to be arranged. H

ARS BC 3031x. Imagery and Form in the Arts.

The operation of imagery and form in dance, music, theatre, visual arts and writing; students are expected to do original work in one of these arts. Concepts in modernist theory will be explored.—J. Snitzer.
3 points. M 2:10-4:00.

M 6:00-7:00. Artsforum.

Artsforum is an informal weekly meeting with professionals in the arts.

STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y, are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the department chairman. Classes are limited in size. Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20.00 to \$45.00. For students other than those majoring in Art History with Visual Arts concentration, a maximum of four courses of studio work may be credited towards graduation; each of the second two must be matched with an art history course to be credited.

ARH BC 2003x, 2004y. Studio Painting.

Studio courses in painting with acrylic and oil; supplementary instruction in drawing and the use of color. Emphasis on individual development.—A. McCoy.
2 points. Th 2:10-6:00.

ARH BC 2005x, 2006y, 2007x, 2008y. Painting.

Basic skills developed by setting specific tasks to be executed in painting. Previous art training is not necessary.—J. Snitzer.
2 points. W 2:10-6:00.

STUDY ABROAD: REID HALL, PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Art History H 3320x, y. Medieval Art and Architecture.

For students in the Advanced Program
Lectures and discussions on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre-Dame, Chartres, and Sainte-Chapelle, and other sites. —B. Chevallier.
3 points.

Art History H 3430q. Renaissance and 17th-Century Art and Architecture.

For students in the Combined Program
Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the Musée Conde, Fontainebleau, Château d'Ecouen, Vaux-le-Vicomte, Versailles, and the Louvre, and other sites. —C. Sala.
3 points.

Art History H3550x. French Architecture, 1750-1930 [in English].

For students in the Art History Program
A survey of major figures and currents in French architecture from the birth of International Neoclassicism to the early career of Le Corbusier and his French art deco contemporaries. (See Reid Hall bulletin for complete description of course.)—B. Bergdoll.

Art History H 3604x. Seminar on Contemporary French Art.

For students in the Advanced Program
Emphasis on one particular work, artist, or school. The topic for 1990 to be announced.—J. Ferrier.
4 points.

Art History H 3990y. Claude Monet. (Seminar)

For students in the Advanced Program
Covers the long and productive life of Claude Monet and includes the often frustrated directions of his work in the 1860's as well as the lesser-studied periods following Argenteuil.

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Museum visits and field trips, including Giverny.—Olivia Lorsignol.
Limited to 15 students.
4 points.

Art History H 3993x. Planning Paris: Urban form and national politics in the French capital from the Revolution to the fall of the Second Empire, 1789-1870 (seminar) [in English]. *For students in the Art History Program.* The politics of town-planning projects from the unrealized projects of the Revolution to the wide-scale transformation of the city under Baron Haussmann is studied through lectures, student reports, and site visits.—B. Bergdoll.
4 points

Art Humanities H 3710y. Fine Arts in Paris. (in English) Capitalizes on the Paris setting by focusing on artists and architecture that can be studied to best advantage in France. Excursions to Chartres, Reims, Giverny, Rouen, and other Normandy sites. The works of Delacroix and the French Impressionists receive special attention. Students learn to give a gallery talk and translate visual perceptions into verbal expression.—Olivia Lorsignol.
Limited to 15 students.
3 points.



Biological Sciences

Department Office: 1203 Altschul Hall
General Biology Course Office: 911 Altschul Hall

Telephone: 854-2437
Telephone: 854-2153

Professors

Philip V. Ammirato, Patricia L. Dudley

Associate Professors

Julia Chase¹, Paul E. Hertz (Chair)

Assistant Professors

Nathan M. Chu, James P. Mohler, Bruce A. O'Gara, Helen J. Young

General Biology Laboratory Staff:

Director

Alice M. Walrath

Assistant Directors

Philip Knapp, Lisa Wright

Laboratory Associates

John Cozza, Irwin Hinds, Cliff Kolba, Harriet S. Waks

Other officers of the University offering courses listed below:

Professors

Walter J. Bock, Darcy B. Kelley, Cyrus Levinthal, James L. Manley, M-m. Poo, Alexander A. Tzagoloff, Geoffrey L. Zubay

Associate Professor

Martin Chalfie

Assistant Professors

Laurel Eckhardt, Teri Melese

¹Absent on leave Spring Term

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. It includes the study of communities, populations, whole organisms, organs, tissues, cells, and subcellular components. Some of the most exciting issues of the day, such as those relating to biotechnology, genetic engineering, environmental problems, and health, require a strong background in biology. At Barnard courses cover molecular biology; the fine structure, development and physiology of cells, tissues, and organs; the embryology, behavior and structure of organisms; and the ecology and evolution of populations and communities.

Many students specialize in Biology in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many subfields of biology leading to a teaching and research career. Still others plan futures as biological or medical librarians, scientific writers, illustrators or photographers, researchers in industry or government or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, microcomputers and equipment routinely used in biochemical, molecular and physiological research. The facilities include constant temperature rooms, darkrooms, an animal care facility, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, or the Donald and Nancy Ritchie Fund. The department maintains a file of summer courses and research stations, and information on available funds can be obtained in the department office. Support for participation or assistance in the

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research of the Barnard faculty is available at times from research grants and program grants.

The Barnard Biology Department offers several options at the introductory level; students should select courses on the basis of their prior preparation and background in Biology. For students with little prior experience, BC 1001x provides an appropriate introduction to important concepts in the field. Biology BC 1002y expands upon that introduction with detailed discussions of three important topics; both BC 1001 and BC 1002 include a laboratory component and together fulfill Barnard's laboratory science requirement (though neither course receives credit for the Biology major). Alternatively, a student who is interested in a broader treatment of the field in preparation for advanced study in Biology may enter the 2000-level sequence (BC 2001y) immediately after completing BC 1001x. Students with a strong background in Biology should enroll directly in the 2000-level sequence. These three courses (two lecture courses and one laboratory course) comprise an introduction that is suitable for potential Biology majors, majors in other sciences, and students interested in the health professions. The 2000-level introductory courses are prerequisites for upper-level courses in the department. Either BC 2001 or BC 2002 may be taken first.

Students who pass the Advanced Placement exam with a grade of 4 or 5 and evidence of satisfactory laboratory experience are exempt from BC 1001 and receive 3 points of AP credit. A laboratory notebook may be submitted to the department for a possible 1-1/2 points of additional credit. Students who receive AP credit with a grade of 4 or 5 may complete the laboratory requirement with BC 1002. If a student anticipates further study of Biology or other natural sciences, she should instead enroll in the 2000-level sequence; completion of BC 2003 and either BC 2001 or BC 2002 will fulfill the science requirement for a student who receives AP credit.

REQUIREMENTS FOR THE MAJOR

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically-oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a year of introductory biology, including laboratories (BC 2001, BC 2002, BC 2003 or equivalent).

Three Core Lecture Courses. One lecture course must be selected from each of the following three pairs:

1. BC 3302 Molecular Biology **or** BC 3310 Cells and Tissues
2. BC 3340 Plant Physiology **or** BC 3360 Mammalian Physiology
3. BC 3370 General Ecology **or** BC 3372 Population and Community Ecology

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200 level are particularly appropriate for sophomores who have completed General Biology; courses at the 3300 level are more advanced and may require additional prerequisites.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a co-requisite or pre-requisite; such requirements are specified in the course descriptions below. A student may count a guided research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of guided research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of \$40 per course. Appropriate biology laboratories at Columbia University may be used to satisfy the lab requirement as may those taken at other institutions, the latter with permission of the department chair.

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Senior Seminar or Individual Research with Seminar. Students must enroll in one section of the *Senior Seminar* (BC 3590) or complete a guided research project in the laboratory of a member of the Barnard Biology Department (BC 3591), including concurrent participation in the research seminar. If a student completes an individual research project in lieu of the senior seminar, she may not also use an individual research project to fulfill part of the laboratory requirement.

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required.

The Graduate Record Examination or the Medical College Admissions Test is used as the major examination. The scores are also used, together with grade point average and faculty recommendations, to determine the recipients of departmental honors.

Participation in a special project Biology BC 3591 or BC 3592, is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report written in journal style. Intradepartmental projects (BC 3591) require concurrent enrollment in the research seminar and may be used to fulfill the major requirement for a senior seminar. Alternatively, after completing a senior seminar, a student may count one intradepartmental research project as an elective laboratory. However, only one term of individual research will receive credit toward the major. Intradepartmental projects are graded by letter grade or P*/D/F at the option of the faculty sponsor. Extradepartmental projects (BC 3592) receive only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

A year of chemistry with laboratory, including one term of organic chemistry, is required for the biology major (Chemistry BC 1601, *General Chemistry*; BC 3328 and BC 3230 *Organic Chemistry I*). Entering first-year students who plan to major in biology are encouraged to take these chemistry courses in addition to Biology in their first year. Some upper level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and in addition, one year each of calculus and physics; a course in statistics is also recommended. Students interested in behavioral biology may also wish to enroll in Physiological Psychology (Psychology BC 1117 or BC 1119); the grade for this course may be included in the Biology major average. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office during their first two years and should take the MCAT exam at the end of their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of introductory biology (BC 2001, BC 2002, BC 2003), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Environmental Science, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1001x. Revolutionary Concepts in Biology.

An exploration of the major discoveries and ideas that have revolutionized the way we

view organisms and understand life. The basic concepts of cell biology, anatomy and physiology, genetics, evolution, and ecology will be traced from seminal discoveries to the modern era. The laboratory will develop

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these concepts and analyze biological diversity through a combined experimental and observational approach. (This course does not fulfill Biology major requirements or premedical requirements.) —P. Ammirato. Enrollment in laboratory sections limited to 16 students per section.

4½ points. Lecture M W F 9:00-9:50.

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu W or Th 1:10-4:00 or 2:10-5:00.

BIO BC 1002y. Contemporary Issues in Biology.

An exploration of modern biology as it pertains to contemporary issues. The first module examines the biology of viral pathogens of animal cells, in particular the virus responsible for AIDS. The second module considers human physiology and health, focusing on exercise, nutrition, and stress. The third module explores population growth and resource use, emphasizing the uniqueness of human populations. Lab exercises introduce biological techniques for studying these topics. (This course does not fulfill Biology major requirements or premedical requirements.) —P. Hertz, J. Mohler, B. O'Gara.

Prerequisites: BIO BC 1001, AP score of 4 or 5, or equivalent preparation and background.

Enrollment in laboratory sections limited to 16 students per section.

4½ points. M W F 9:00-9:50.

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu W or Th 1:10-4:00 or 2:10-5:00.

BIO BC 2001y. Molecular, Cellular, and Developmental Biology.

A detailed introduction to cellular and sub-cellular biology; cell structure and function; biochemical analysis of metabolic and catabolic pathways; molecular biology and the biogenesis of cell components; genetics and the biology of inheritance; patterns of development, embryology through neurulation. (This course is suitable for fulfillment of premedical requirements.) —N. Chu.

Prerequisites: BIO BC 1001 or AP score of 3 or higher or equivalent preparation.

3 points. M W F 9:00-9:50.

BIO BC 2002x. Physiology, Ecology, and Evolutionary Biology.

A detailed introduction to biological phenomena above the cellular level; development, anatomy, and physiology of plants and animals; physiological, population, behavioral, and community ecology; evolutionary theory; analysis of micro-evolutionary processes and macro-evolutionary events;

systematics. (This course is suitable for fulfillment of premedical requirements.) —P. Hertz.

Prerequisites: BIO BC 1001 or AP score of 3 or higher or equivalent preparation.

3 points. M W F 9:00-9:50.

BIO BC 2003y. Biodiversity Laboratory.

A laboratory-based introduction to the five kingdoms of living organisms; anatomy, physiology, evolution, and systematics of major groups; laboratory techniques for studying specialized adaptations.—H. Young.

This course is suitable for fulfillment of premedical requirements.

Prerequisites: BIO BC 1001, AP score of 3 or higher.

2 points. M 12:10-1:00.

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu W or Th 1:10-4:00 or 2:10-5:00.

BIO BC 3200x. Genetics.

Genetics of eukaryotes, prokaryotes and viruses, with special emphasis on human genetics; segregation; recombination, mapping, and the measurement of linkage; cytogenetics; population genetics; molecular genetics.—N. Chu.

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

3 points. M W F 11:00-11:50 plus one hour required recitation to be arranged.

BIO BC 3201x. Laboratory in Genetics.

Exercises in the use of *Drosophila*, *Neurospora*, bacteria and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics.—N. Chu.

Prerequisite or corequisite: BC 3200 or the equivalent.

Enrollment limited to 16 students per section.

2 points. W or Th 1:10-5:00.

BIO BC 3240y. Plant Biology.

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance.—N. Chu.

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

3 points. Alternate years. Offered in 1991-92.

BIO BC 3241y. Laboratory in Plant Biology.

Studies of the structure and evolution of green plants. A survey of major groups from

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the aquatic forms, the algae, to the most complex terrestrial plants, the angiosperms, with emphasis on the relation of form to function.—N. Chu.

Prerequisite or corequisite: BC 3240.

Enrollment limited to 24 students.

2 points. Alternate years. Offered in 1991-92.

BIO BC 3250y. Invertebrate Zoology.

The biology of invertebrate animals; comparative structure and physiology of the cells, tissues, and organs of invertebrates; the development, behavior and evolution of these animals, stressing their adaptations to marine, freshwater, and terrestrial habitats.—P. Dudley.

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

3 points. M W F 11:00-11:50.

BIO BC 3251y. Laboratory in Invertebrate Zoology.

Studies on the adaptive biology of invertebrate animals. A survey of major and minor phyla of invertebrates, including observations and other studies of living animals. One-third of the course will be devoted to an independent project involving electron microscopy, anatomy, physiology, behavior, or ecology.—P. Dudley.

Prerequisite or corequisite: BC 2001, 2002, 2003 or the equivalent. BC 3250 is recommended as a prerequisite or corequisite, but is not required. *Enrollment limited to 24 students. Alternate years.*

2 points. W 1:10-5:00.

BIO BC 3260x. Vertebrate Zoology.

A systematic survey of the Phylum Chordata: fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding and behavior—P. Hertz.

Prerequisite: BC 2001, 2002, 2003 or the equivalent.

3 points. Alternate years. Offered in 1991-92.

BIO BC 3280x. Animal Behavior.

Introduction to animal behavior; physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), traditional ethological approaches to behavior (communication, dyadic behavior, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, ecological correlates, sociobiology).—J. Chase.

Prerequisite: BC 2001, 2002, 2003 or one year of psychology.

3 points. Not offered in 1990-91.

BIO BC 3302x. Molecular Biology.

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development.—J. Mohler.

Prerequisites: BC 2001, 2002, 2003 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.

3 points. M W F 9:00.

BIO BC3303x. Laboratory in Molecular Biology.

An introduction to the use of molecular techniques to answer questions about subcellular biological phenomena. Techniques include isolation of genomic and plasmid DNAs, restriction enzyme analysis, DNA and protein electrophoresis, bacterial transformation, and plasmid subcloning.—J. Mohler.

Prerequisite: BC 3302 or permission of the instructor. *Enrollment limited to 18 students.*

Alternate years.

3 points. Tu 1:10-5:00, required recitation Tu 12:10-1:00.

BIO BC 3305y. Project Laboratory in Molecular Biology.

A project laboratory in molecular biology of *Drosophila*. Experiments will include isolation of phage, plasmid and genomic DNA: screening of DNA libraries; restriction mapping, Southern analysis and characterization of RNA transcripts. Project will characterize a particular unknown *Drosophila* sequence and RNA derived *in vivo* from that DNA.—J. Mohler.

Prerequisite: BC 3302 or permission of the instructor; Chemistry BC 3355x is recommended. *Enrollment limited to 12 students.*

5 points. Alternate years. Offered in 1991-92.

BIO BC 3310x. Cells and Tissues.

Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; light microscopic and electron microscopic studies of the structure of cell organelles and tissues; modern concepts of function.—P. Dudley.

Prerequisites: BC 2001, 2002, 2003 or the equivalent and one advanced biology course. A year of chemistry, including organic chemistry is required.

3 points. Tu Th 10:35-11:50.

Biological Sciences

BIO BC 3311x. Laboratory in Cell and Tissue Biology.

Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques.—P. Dudley.

Prerequisite or corequisite: BC 3310 or the equivalent.

Enrollment limited to 16 students.

3 points. Offered in 1991-92.

BIO BC 3320x. Microbiology.

Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology and metabolism; genetic mechanisms and inter-relationships in bacteria. Some aspects of applied microbiology will be considered: the role of microorganisms in natural processes; aspects of pathogenicity and immunity to disease.—Instructor to be announced.

Prerequisites: BC 2001, 2002, 2003 and general chemistry.

3 points. Not offered in 1990-91.

BIO BC 3321x. Laboratory in Microbiology.

This course provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small, independent project.—Instructor to be announced.

Prerequisite or corequisite: BC 3320.

Enrollment limited to 24 students.

3 points. Not offered in 1990-91.

BIO BC 3340y. Plant Physiology.

Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence and death.—P. Ammirato.

Prerequisites: BC 2001, 2002, 2003 or the equivalent, and one term of organic chemistry.

3 points. Alternate years. Offered in 1991-92.

BIO BC 3341y. Laboratory in Plant Physiology.

Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction. CO₂ compensation points and respiration rates. Extraction, separation and identification of

amino acids, nucleic acids and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis.—P. Ammirato.

Prerequisite or corequisite: BC 3340.

3 points. Alternate years. Offered in 1991-92.

BIO BC 3342y. Plant Development.

Processes of growth, differentiation and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action.—P. Ammirato.

Prerequisites: BC 2001, 2002, 2003 or the equivalent, and one semester of organic chemistry.

3 points. Tu Th 9:10-10:35.

BIO BC 3343y. Laboratory in Plant Development.

An experimental approach to the patterns, processes, and control mechanisms of plant development. Meristems and cell differentiation; embryogenesis and organogenesis; responses to hormones and environmental variables. Work with whole plant, organ and cell cultures.—P. Ammirato.

Prerequisite or corequisite: BC 3342.

Enrollment limited to 16 students. Alternate years.

3 points. Tu 1:10-5:00, required recitation Tu 12:10-1:00.

BIO BC 3352y. Animal Development.

An introduction to animal development stressing the mechanisms that control developmental processes. Topics include spermatogenesis, oogenesis, fertilization, cleavage, establishment of the body plan, cellular events in gastrulation and morphogenesis, and control of gene expression in development.—J. Mohler.

Prerequisite: BC 2001, 2002, 2003 or the equivalent; one year of chemistry (including one semester of organic chemistry) is recommended.

Alternate years. Not offered in 1990-91.

3 points.

BIO BC 3360x. Mammalian Physiology.

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine and nervous systems in animals; emphasis on higher vertebrates and humans.—J. Chase.

Prerequisites: Three semesters of biology and one semester of organic chemistry.

3 points. M W 4:10-5:25.

Biological Sciences

BIO BC 3361y. Laboratory in Physiology.

Physiographic recording of cardiac, respiratory and muscle function; small animal surgery; stereotaxic technique and histological confirmation of lesions. Additional laboratories in amphibian metamorphosis, enzyme kinetics, active transport, exercise physiology and renal function.—B. O’Gara.

Prerequisite: BC 3360.

Enrollment limited to 16 students.

3 points. Th 1:10-5:00, required recitation Th 12:10-1:00.

BIO BC 3370y. General Ecology.

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment.—P. Dudley.

Prerequisite: BC 2001, 2002, 2003 or the equivalent. *A course in general chemistry is recommended. Alternate years.*

3 points. Offered in 1991-92.

BIO BC 3372y. Population and Community Ecology.

Introduction to evolutionary ecology; life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate theory with empirical studies.—Instructor to be announced.

Prerequisites: BC 2001, 2002, 2003 and any additional Biology course.

3 points. Alternate years. M W F 10:00-10:50.

BIO BC 3373x. Laboratory in Ecology.

The definition of ecological problems in experimentally tractable ways; the design of experiments and analysis of ecological data; class projects on population ecology; students conduct individual projects during last month of term.—P. Hertz.

Prerequisite or corequisite: BC 3370 or BC 3372. *Enrollment limited to 16 students.*

3 points. Alternate years. Not offered in 1990-91.

BIO BC 3380y. Evolution.

A study of the processes of evolution with emphasis on the mechanisms underlying evolutionary change. Topics include rates and direction of evolution, genetics of the evolutionary process, adaptive significance of sex

and life history variation, coevolution.—H. Young. *Prerequisite:* BC 2001, 2002, 2003 or the equivalent. *Alternate years.*
3 points. M W F 10:00-10:50.

BIO BC 3590x, y. Senior Seminars in Biology.

Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on both theoretical and empirical work. Seminar periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.

4 points.

1. Plant Biotechnology.

—P. Ammirato.

Not offered in 1990-91.

2. Sociobiology.

—J. Chase.

M 2:10-4:00.

3. Evolutionary Ecology.

—P. Hertz.

Not offered in 1990-91.

4. Molecular Development and Genetics.

—J. Mohler.

Not offered in 1990-91.

5. Plant Molecular Biology.

—N. Chu.

Not offered in 1990-91.

7. Evolutionary Biology.

—H. Young.

Spring, Th 4:10-6:00.

BIO BC 3591x, y. Guided Research in Biology.

Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department research seminar required. Guided Research—Staff; Research Seminar—P. Dudley.

Prerequisites: Three semesters of college biology and permission of a faculty sponsor.

4 points. Hours for research and seminar to be arranged.

BIO BC 3592x, y. External Research in Biology.

Research projects conducted outside the department developed in consultation with a

Biological Sciences

faculty member who serves as cosponsor. —Staff.

Prerequisites: Three semesters of college biology and permission of a faculty cosponsor. 1-4 points. Hours to be arranged. *NOTE:* May only be taken for pass/fail. BC 3592 does not receive credit toward the biology major.

BIO BC 3593x-3594y. Research and Seminar in Biopsychology.

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis.—Staff.

Prerequisites: Six of the required courses for the biopsychology major.

4 points. Hours to be arranged.

NOTE: Students may take any of the following courses as elective lectures or elective laboratories in fulfillment of the major requirement. Prior permission must be obtained from the Chair of the Barnard Biology Department before other Columbia courses can be used to fulfill the Biology major requirement.

BIO W 3002y. Introduction to Animal Structure and Function.

W. Bock.

Prerequisites: One year each of biology and physics.

6 points. Lecture M W F 9:00.

Laboratory M Tu W 1:10-5:00 or M W 6:10-10:00. (Two 4-hour laboratories required.)

BIO W 3004x. Neurobiology I.

—M-m. Poo.

Prerequisite: One year of biology.

4 points. Tu Th 10:35-11:50, recitation Tu or Th 12:00.

BIO W 3005y. Neurobiology II.

—D. Kelley.

Prerequisite: One year of biology.

4 points. Tu Th 4:10-5:25, recitation Tu 3:10 or Th 5:30.

BIO C 3046y. Project Laboratory in Eucaryotic Gene Expression.

—J. Manley and M. Chalfie.

Prerequisites: One year of biology and the instructor's permission.

Application must be submitted in Room 600 Fairchild.

5 points. Tu and Th 1:10-5:00 and additional hours to be arranged.

BIO C 3064x. Molecular Genetics.

—G. Zubay.

Prerequisite: C 1005 or the equivalent.

4 points. Tu Th 10:35-11:50.

Recitation Tu or Th 12:00.

BIO W 3073x. Cellular and Molecular Immunology.

—L. Eckhardt.

Prerequisite: C 1005 or W 3031.

3 points. M W 1:10-2:25.

BIO C 3110y. Biological Macromolecules.

—C. Levinthal.

Prerequisite: One year of calculus and one year of physics.

3 points. Tu Th 2:35-3:50.

Biology-Chemistry BCH C 3501x.

Biochemistry I: Structure and Metabolism.

—T. Melese and A. Tzagoloff.

Prerequisites: C 1005 and one year of organic chemistry.

4 points. M W F 10:00, plus one hour recitation to be arranged.

Biopsychology

Advisers: Julia Chase (Biological Sciences), Christina L. Williams (Psychology).

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology. A major in Biopsychology aims to provide a strong background in the behavioral sciences for students who plan to pursue a Ph.D. in Biopsychology or Psychobiology and for whom research training is of prime concern. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

It should be noted that students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

REQUIREMENTS FOR THE BIOPSYCHOLOGY MAJOR

Psychology BC 1001	<i>Introduction to Psychology</i>
Biology BC 2001,2002,2003	<i>Introductory Biology</i>
Psychology BC 1101	<i>Statistics</i>
Psychology BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology BC 3200 and BC 3201	<i>Introduction to Genetics with Laboratory</i>
Biology BC 3280	<i>Animal Behavior</i>
Psychology BC 1117 or BC 1119	<i>Physiological Psychology*</i>
Biology BC 3360/3361	<i>Mammalian Physiology*</i>

*One of these physiology courses must be taken with a laboratory.

Psychology BC 3593-BC 3594	
or	<i>Research and Seminar in Biopsychology</i>
Biology BC 3593-BC 3594	

Two advanced courses selected from different categories below:

I. Biology W 3004	<i>Neurobiology I</i>
Biology W 3005	<i>Neurobiology II</i>
Biology C 3006	<i>Project Lab in Neurobiology</i>
Biology G 4004	<i>Biology of Nerve Cells</i>
Biology G 4008	<i>Seminar on the Development of the Nervous System</i>
II. Psychology BC 2154	<i>Hormones and Reproductive Behavior</i>
Psychology BC 3169	<i>Developmental Psychobiology</i>
Psychology BC 3376	<i>Infant Development</i>
III. Biology BC 3370	<i>General Ecology</i>
Biology BC 3372	<i>Population and Community Ecology</i>
IV. Psychology BC 3164	<i>Perception and Language</i>
Anthropology W 3203	<i>Primate Behavior</i>
Psychology BC 3374	<i>Theories of Learning</i>
V. Biochemistry C 3501	<i>Biochemistry</i>
Biochemistry G 4021	<i>General Biochemistry</i>
Biology W 3041	<i>Cell Biology</i>
Biology BC 3310	<i>Cells and Tissues</i>

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

Chemistry

Office: 705 Altschul Hall

Telephone: 854-8461

Professors

Sally Chapman, Leslie Lessinger (Chair)

Assistant Professors

Elise Megehee, Marco Pagnotta, Peter Shenkin, Shelley Weinstock¹

Director of General Chemistry Laboratories

Olympia Jebejian

Director of Organic Chemistry Laboratories

James Carter

Associates

Stephen DeMeo, Frances Feerst, Colette Levi, Nuka Reddy

¹Absent on leave Autumn Term

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken the Advanced Placement Test may be given advanced placement and one semester's credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, General Chemistry; Chemistry BC 3328, BC 3230, and BC 3231, Organic Chemistry I and II with laboratory; Chemistry BC 3232, Intermediate General Chemistry. The laboratory courses, Chemistry BC 3333 and 3338, are recommended.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department: chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either. Qualified seniors are invited to participate in the senior honors program in which they carry out a year-long research project leading to a thesis.

Chemistry

A student who is interested in chemistry should consult any member of the department during her first year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the chemistry major are:

Chemistry

Chemistry BC 1601
Chemistry BC 3328, 3230
Chemistry BC 3231
Chemistry BC 3335

Chemistry BC 3340

Chemistry BC 3252

Chemistry BC 3253
Chemistry BC 3254

Chemistry BC 3365, 3368
Mathematics

Physics V 1103, 1104 or
BC 1206 (or C 1406) with W 1906,
BC 1207 (or C 1407) with W 1907

General Chemistry I
Organic Chemistry I with Laboratory
Organic Chemistry II
Modern Techniques of Organic Chemistry
Laboratory
Quantitative and Instrumental
Techniques Laboratory
Introduction to Thermodynamics and
Kinetics
Structure, Bonding, and Spectroscopy
Methods and Applications in Physical
Chemistry
Advanced Chemistry Laboratory
Calculus I and II in any sequence (A, S, or
honors)
Calculus-based Physics with Laboratory

Recommended: *Calculus III* and *Chemistry C 3071y*.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Research experience is strongly recommended for students planning graduate study. Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the biochemistry major are:

Chemistry BC 1601
Chemistry BC 3328, 3230
Chemistry BC 3231
Chemistry BC 3333

Chemistry BC 3338

Chemistry BC 3252

Chemistry BC 3253
Chemistry BC 3254

Mathematics

Physics V 1103, 1104 or
BC 1206 (or C 1406) with W 1906,
BC 1207 (or C 1407) with W 1907

Biology BC 2001, 2002, 2003
Biology-Chemistry C 3501
Biology-Chemistry C 3512

or Biology BC 3302x

Chemistry BC 3355

A 3-point elective course from a list of approved Biology and Chemistry courses.

General Chemistry I
Organic Chemistry I with laboratory
Organic Chemistry II
Modern Techniques of Organic Chemistry
Laboratory
Quantitative and Instrumental
Techniques Laboratory
Introduction to Thermodynamics and
Kinetics
Structure, Bonding, and Spectroscopy
Methods and Applications in Physical
Chemistry
Calculus I and II in any sequence (A, S, or
honors)
Calculus-based Physics with Laboratory

General Biology with Laboratory
Biochemistry I

Molecular Biology
Biochemistry Laboratory Techniques

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, and BC 3232 or BC 3252

There is no minor in Biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x. General Chemistry I.

Particulate nature of matter in various states; chemical transformations, especially of ionic substances; properties of gases; solutions; equilibrium; acid-base, precipitation, and oxidation-reduction reactions; thermochemistry; laboratory experience with both qualitative and quantitative techniques.—L. Lessinger, S. Chapman, O. Jebejian and associates.

Prerequisite: Algebra (Math SAT score of 550 for entering students).

Total enrollment in laboratory limited to 160 students.

5 points. Lecture Tu Th 9:10-10:25.

Recitation one afternoon M T W Th or F 1:10-2:00.

Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00.

Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee \$28.

CHE BC 1602y. General Chemistry II.

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; selected topics in environmental chemistry, organic chemistry, and biochemistry.—E. Megehee.

Prerequisite: BC 1601 or permission of the instructor. *Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.*

5 points. Lecture M W F 10:00.

Recitation and laboratory one afternoon M or W 1:10-5:00. Laboratory fee \$28.

CHE BC 1702y. General Chemistry II

Laboratory.

Laboratory portion of Chemistry BC 1602.—F. Feerst.

Prerequisite: General Chemistry I with laboratory. *Corequisite:* General Chemistry II lectures and permission of the instructor.

2 points.

Recitation and laboratory one afternoon M or W 1:10-5:00. Laboratory fee \$28.

CHE BC 3328y. Introductory Organic Chemistry Laboratory.

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation.—J. Carter and associates.

Prerequisite: BC 1601 or equivalent with grade of C- or better, or BC 1601 and BC 1602 or equivalent. *Corequisite:* BC 3230 or equivalent.

Enrollment limited to 120.

2½ points.

Lecture one afternoon M Tu W Th or F 1:00-1:50.

Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30. Laboratory fee \$35.

CHE BC 3230y. Organic Chemistry I.

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry and spectroscopy.—M. Pagnotta.

Prerequisite: BC 1601 or equivalent with a grade of C- or better, or BC 1601 and BC 1602 or equivalent. *Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.*

3 points. Lecture Tu Th 9:10-10:25. Problem section F 12:00.

CHE BC 3231x. Organic Chemistry II.

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and biomacromolecules.—M. Pagnotta.

Prerequisite: BC 3230.

3 points. M W F 10:00. Problem section Tu 12:00.

Chemistry

CHE BC 3232y. Intermediate General Chemistry.

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3252. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.—S. Chapman.

Prerequisites: BC 1601 and Organic Chemistry I. BC 3230 may be taken as a corequisite with permission of the instructor. *Optional parallel laboratory work:* BC 3338. *Course C 1404 is not an acceptable equivalent for BC 3232.*

3 points. M W F 10:00.

CHE BC 3333x. Modern Techniques of Organic Chemistry Laboratory.

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.—M. Pagnotta.

Prerequisites: BC 3328 and BC 3230.

Corequisite: BC 3231.

Enrollment limited to 24 students.

3 points. Lecture Th 1:10.

Laboratory one afternoon Tu 1:10-5:30 or Th 2:10-6:30 or F 12:10-4:30.

Laboratory fee \$35.

CHE BC 3335x. Modern Techniques of Organic Chemistry Laboratory.

Identical with BC 3333, but with a library problem, a short project and additional preparative experiments.—M. Pagnotta.

Prerequisites: BC 3328 and BC 3230.

Corequisite: BC 3231.

Enrollment limited to 15 students.

5 points. Lecture Th 1:10.

Laboratory two afternoons Tu 1:10-5:30, Th 2:10-6:30. Laboratory fee \$35.

CHE BC 3338y. Quantitative and Instrumental Techniques Laboratory.

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computers is provided.—L. Lessinger and O. Jebejian.

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

3 points. Lecture Tu 1:10.

Laboratory Tu 2:10-6:00 or Th 1:10-5:00.

Laboratory fee \$35.

CHE BC 3340y. Quantitative and Instrumental Techniques Laboratory.

Identical with BC 3338, but with a greater variety and number of experiments.—L. Lessinger and O. Jebejian.

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

5 points. Lecture Tu 1:10.

Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00. Laboratory fee \$35.

Chemistry BC 3252y. Introduction to Thermodynamics and Kinetics.

Thermodynamics: introduction to the laws; application primarily to ideal systems. Free energy and equilibrium. Kinetics: rate laws and mechanisms, experimental techniques.—P. Shenkin.

Prerequisites: Chemistry BC 3231 and Calculus II. Chemistry 3338 or 3340 should be taken previously or concurrently.

4 points. Lecture Tu Th 9:10-10:25, F 12:00.

Chemistry BC 3253x. Structure, Bonding, and Spectroscopy.

Elementary quantum chemistry: exact solutions to the Schrödinger equation. The structure of atoms and molecules. Energy levels and spectra.—S. Chapman.

Prerequisites: Chemistry BC 3252, Calculus II, and Physics I (V1103, BC 1206, or C 1406).

4 points. Lecture M W F 11:00, M 12:00.

Chemistry BC 3254y. Methods and Applications in Physical Chemistry.

Radiochemistry. Applications of thermodynamics to real systems: activities, electrochemistry. Macromolecules. Transport properties. The kinetic theory of gases. Elementary statistical thermodynamics.—P. Shenkin.

Prerequisites: Chemistry BC 3253, Calculus II, and Physics II (V1104, BC 1207 or C 1407).

4 points. Lecture M W F 11:00, M 12:00.

CHE BC 3355y. Biochemistry Laboratory Techniques.

Experience with fundamental techniques used in the isolation, characterization, and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics, and simple genetic cell transformation methods.—S. Weinstock.

Prerequisites: BC 3231, or one year of Organic Chemistry, Biology BC 1101, BC 1102 or

Chemistry

equivalent, a total of four semesters of chemistry and biology laboratory, and Biology-Chemistry C 3501 or Biochemistry G 4021.

Enrollment limited to 24 students.

5 points. Lecture Tu 1:10-2:00.

Laboratory Tu 2:10-6:00 and Th 1:10-5:00.

Laboratory fee \$45.

CHE BC 3357y. Biochemistry Laboratory Techniques.

Identical to BC 3355, but experiments are modified to be accomplished in one laboratory period per week. This course may be of particular interest to biology and chemistry majors.—S. Weinstock.

Prerequisites: Same as BC 3355. Enrollment limited to 24 students.

3 points. Lecture Tu 1:10-2:00. Laboratory Tu 2:10-6:00 or Th 1:10-5:00.

Laboratory fee \$35.

CHE BC 3365x. Advanced Chemistry Laboratory.

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some computer applications.—P. Shenkin and N. Reddy.

Prerequisites: BC 3252 and BC 3338 or equivalent.

3 points. Lecture Tu 12:00.

Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00.

Laboratory fee \$35.

CHE BC 3368y. Advanced Chemistry Laboratory.

Experiments in various types of spectroscopy.—E. Megehee and N. Reddy.

Prerequisites: BC 3253, and BC 3338 or equivalent.

3 points. Lecture Tu 12:00.

Laboratory W 1:10-5:00.

CHE C 3071y. Introduction to Inorganic Chemistry.

Principles governing the structure and reactivity of inorganic compounds surveyed from experimental and theoretical viewpoints. Topics include inorganic solids, aqueous and nonaqueous solutions, the chemistry of selected main group elements, transition metal

chemistry, metal clusters, metal carbonyls, and organometallic chemistry.—To be announced.

Prerequisite: Organic Chemistry II.

3 points. M W F 9:00.

CHE BC 3598x. CHE BC 3598y. External Problems in Chemistry.

Advanced individual research projects at other institutions.—Staff.

Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Mandatory pass/fail grading. Permission of the instructor (a Barnard professor who will act as liaison) is required.

4 points.

CHE BC 3599x, CHE BC 3599y. Problems in Chemistry.

Advanced individual research projects at Barnard. — Staff.

Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Permission of the instructor required.

4 points. Eight hours by arrangement.

Laboratory fee \$35.

CHE BC 3901x-3902y. Senior Honors Thesis.

Guided research in Chemistry or Biochemistry, under the sponsorship of a member of the department, leading to the senior thesis. Weekly seminar. —Staff.

Enrollment restricted to seniors, by invitation of the department.

4 points. F 2:00-2:50 and 8 hours research to be arranged.

SUMMER RESEARCH

There are available a number of fellowships for summer research within the department. Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

OTHER COURSES

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Chemistry

Biology-Chemistry BCH C 3501x.

Biochemistry I.

—T. Melese and A. Tzagoloff.

4 points. M W F 10:00.

Biology-Chemistry BCH C 3512y.

Biochemistry II.

—C. Prives and J. Manley.

3 points. Tu Th 9:10.

Chemistry CHE G 4103x. Inorganic Chemistry.

—G. Parkin.

4½ points. Tu Th 9:10.

Chemistry CHE G 4131x. Introductory Quantum Chemistry.

—B. Bent.

4½ points. M W F 12:00.

Chemistry CHE G 4147x. Advanced Organic Chemistry.

—T. Katz and R. Breslow.

4½ points. M W F 9:00.

Chemistry CHE G 4172y. Bio-Organic Topics.

—R. Breslow.

4½ points. M W F 11:00.

Chemistry CHE G 4221x. Quantum Chemistry I.

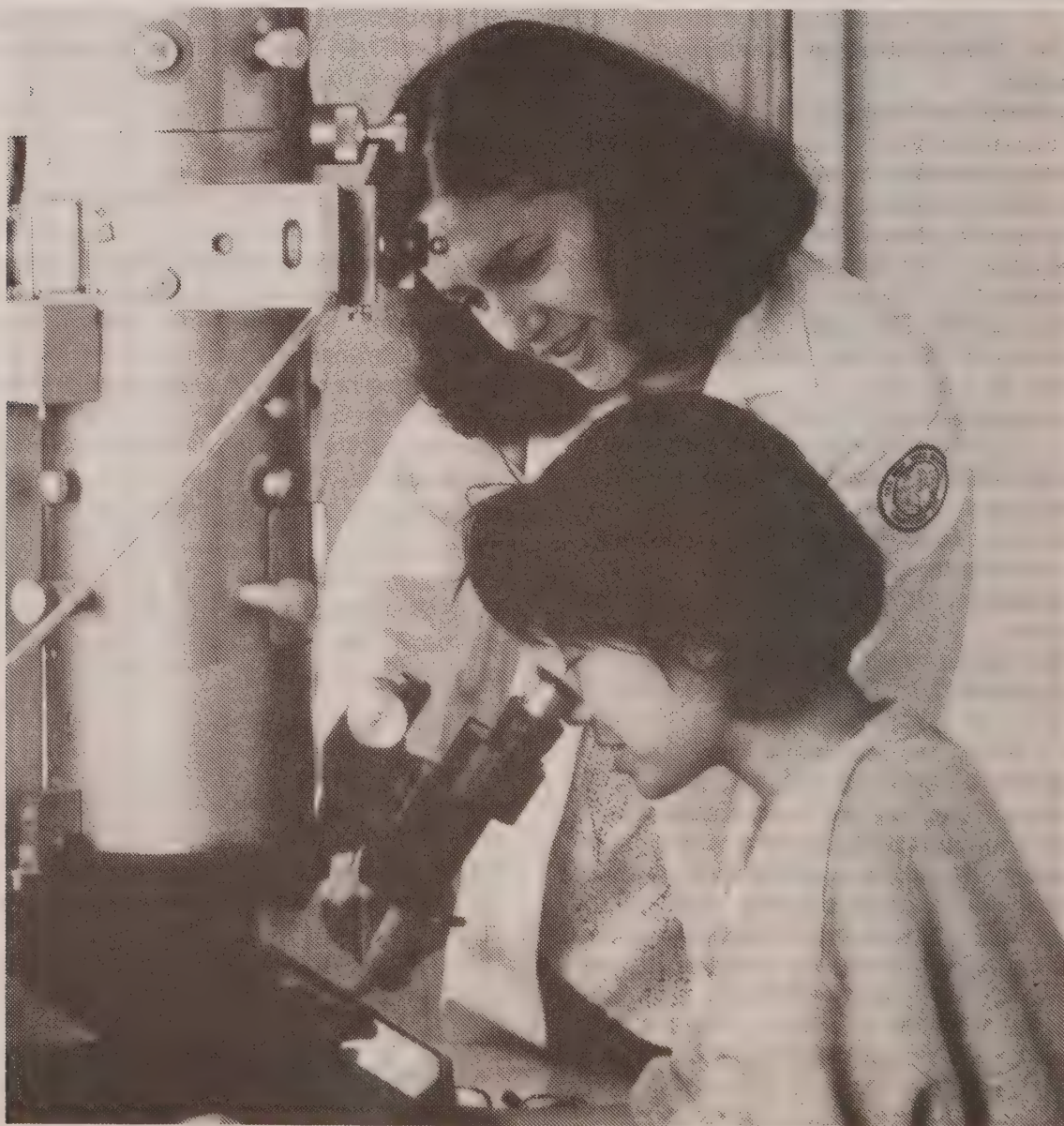
—P. Pechukas.

4½ points. M W F 12:00.

Chemistry CHE G 4231y. Chemical Kinetics.

—M. Vernon.

4½ points. M W F 10:00.



Classics

Office: 215 Milbank Hall

Telephone: 854-4389, 8312

Professors

Helene P. Foley, Lydia H. Lenaghan (Chair)

Assistant Professor

Dirk Obbink

Other officers of the University offering courses in Classics:

Professors

Roger S. Bagnall, Alan D. E. Cameron², James R. Coulter², Suzanne Said, Leonardo Tarán, James E. G. Zetzel

Associate Professors

Darice E. Birge, Peter Knox, Laura M. Slatkin¹

Assistant Professors

Christina Dufner, J. Magee, Mark J. Petrini², James B. Rives

Lecturer

Karen van Dyck

¹Absent on leave Autumn Term

²Absent on leave 1990-91

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *Persians*, *Eumenides*, *Cyclops*, *Electra*, *Clouds*, *Trojan Women*, *Rudens* and *Helen* which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open without fee to graduates of the College.

Classics

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Greek W 4105-W 4106

and five others.

Elements of Greek Prose Style

History of Greek Literature

In Latin, this would be fulfilled by taking

Latin W 4139

Latin W 4105-W 4106

and five others.

Elements of Latin Prose Style

History of Latin Literature

In addition two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and 5 courses above the elementary level in the other.

REQUIREMENTS FOR THE MINOR

The minor in Greek or Latin requires five courses above the elementary level.

FOR THE REQUIREMENTS FOR THE MAJOR IN ANCIENT STUDIES, SEE ANCIENT STUDIES.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses.

Classical Literature CLL V 3132x (formerly BC 1032x). Classical Myth.

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). — D. Obbink.

3 points. M W 1:10-2:25.

H

Art History-Classical Literature AHC V 3245x. Greek Mythology in Ancient Art and Literature.

Analytic and comparative survey of major Greek myths in terms of their application and representation in classical literature and art.

3 points. Not offered in 1990-91.

Classical Literature CLL V 3123y. Greek Drama and Its Influences.

Evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome: relation of these forms to later European dramatic

forms; theories of comedy and tragedy including those of Aristotle; the production of plays.—S. Said.

3 points. M W 2:40-3:55.

H

Classical Literature CLL V 3135y. The Ancient Novel.

The evolution of the Greek and Roman novel and its place within the literary canon; particular attention to principles of narrative and the ideological function of prose fiction. Petronius, Apuleius, Lucian, Heliodorus, Achilles Tatius, Longus; Acts of the Apostles, and saints' lives.

3 points. Not offered in 1990-91.

H

Classical Literature CLL W 4300y. The Classical Tradition.

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern authors.—H. Foley.

3 points. M W 6:10-7:25.

H

Classical Civilization CLC V 3158x. Women in Antiquity.

Role of women in ancient Greek and Latin literature; portrayal of women in literature as compared with their actual social status; male

and female in ancient Mediterranean cosmologies; readings from ancient epic, lyric, drama, history and historical documents, medical texts, oratory and philosophy as well as contemporary sociological and anthropological works which will help to analyze the origins of the Western attitude towards women.— H. Foley.

3 points. M W F 11:00-11:50. H

Classical Civilization CLC V 3162y. Ancient Law.

Greek and Roman legal systems; archaic law in its social context; philosophy of law; development of private law in Rome.—J.Zetzel.
3 points. M W 9:10-10:25.

Classical Civilization CLC V 3163x. The Greek Historical Tradition.

Greek conceptions of how history is made; determining influences such as divine interference, individual human exploits, chance; analysis of epic, philosophical, and historical texts.
3 points. Not offered in 1990-91.

Classical Civilization CLC V 3164y. The Emperor Nero and the Roman World.

The literature and society of Rome in the early Empire, focusing on the reign of Nero. Emphasis is on the literary texts read in translation, including Tacitus, Seneca, Petronius, and Juvenal. Topics discussed will include accounts of daily life, political propaganda, and the Stoic opposition.— P. Knox.
3 points. Not offered in 1990-91.

Classical Civilization CLC V 3175x. The World of Late Antiquity.

The social, economic and religious history of the Roman world from the second to the early seventh century A.D.—A. Cameron.
3 points. Not offered in 1990-91.

Classical Civilization CLC V 3140x. The Archaeology of the Later Greek Bronze Age.

The material culture of Mycenaean Greece and Crete, including architecture, painting, pottery and the Linear B tablets. The problem of the final collapse of Mycenaean Civilization, and the Dark Ages, which gave rise to the Homeric poems.
3 points. Not offered in 1990-91.

Classical Civilization CLC V 3160y. The Age of Augustus.

An exploration of the interplay between literature and its context, political, social, and intellectual. Literary texts to be discussed will

include Vergil, Horace, Livy, and Ovid. Topics to be considered (in addition to the works themselves) will include literary patronage and the status of the poet, the Augustan moral and religious revival, political propaganda, and political opposition.—J. Zetzel.
3 points. Not offered in 1990-91.

Classical Civilization CLC V 3145y. Cities and Sanctuaries in Ancient Greece.

The development, major elements, and noteworthy peculiarities of Greek cities and sanctuaries. Emphasis will be on individual monuments and the arrangement of sites and their political, social, and religious functions throughout the Greek world from the rise of city-states through the formation of the Roman provinces.—D. Birge.
3 points. Not offered in 1990-91.

Classical Civilization CLC V 3250y. Religions in the Roman Empire.

Survey of the religious practices and institutions of the Roman Empire, 50 B.C.E. to 325 C.E., with special consideration of modern approaches to the material.—J. Rives.
3 points. T Th 1:10-2:25.

Ancient Studies ANC W 4000x. Introduction to Ancient Studies.

This seminar is an introduction to the interdisciplinary study of the ancient world; the topic will vary from year to year. In 1990-91 the topic will be 5th-century Athens. Required of students entering the MALS Program in Ancient Studies and open to other graduate and undergraduate students with permission of the instructor.—D. Birge.
3 points. W 6:10-8:00.

GREEK LANGUAGE AND LITERATURE

GRE V1101x-V1102y. Elementary Full-Year Course.

Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the *Apology*, will be read.—x: D. Birge; y: Staff.
1101 is prerequisite to 1102.
No credit is given for 1101 unless 1102 is completed.
4 points. M W F 11:00-12:15.

GRE V 1121x, y. Intensive Elementary Course.

This course is designed to cover all of Greek grammar and syntax in one semester in order

Classics

to prepare the student to enter third semester Greek.—x: Staff; y: D. Obbink.
4 points. *M W F 9:10-10:25.*

GRE V 1201x. Greek Literature: Prose and Poetry.

Selections from Lysias and early elegiac and lyric poetry. There will be weekly assignments to review forms and syntax.—L. Tarán.

Prerequisite: V1101-V1102 or V 1121.

4 points. *M W 11:00-12:15, F 11:00-11:50.*

GRE V 1202y. Selections from Homer.

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer.—S. Said.

Prerequisite: V 1101-V 1102 or V 1121, or permission of the instructor.

4 points. *M W 11:00-12:15, F 11:00-11:50. H*

GRE V 1203x. New Testament.

Selections from the New Testament—J. Magee.

Prerequisite: V 1101-V 1102 or V 1121.

4 points. *M W 9:10-10:25, F 9:10-10:00.*

GRE V 1221y. Intensive Intermediate Greek.

Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*.—D. Birge.

Prerequisite: V 1101, V 1102, or V 1121, or the equivalent.

4 points. *M W F 9:10-10:25.*

GRE V 3305x. Tragedy.

Prerequisites: V1201, 1202, or their equivalents.

Alternate years.

3 points. *Not offered in 1990-91. H*

GRE V 3306y. Historians.

Prerequisites: V1201, 1202, or their equivalents.

Alternate years. Not offered in 1990-91.

3 points. *H*

GRE V 3307y. Comedy.

A detailed study of Aristophanes' *Clouds* with supplementary reading in both Greek and English from the work of the Sophists, and from Plato and Xenophon on Socrates.—H. Foley.

Prerequisites: V1201, 1202 or their equivalents. Alternate years.

3 points. *M W 1:10-2:25 H*

GRE V 3308x. Philosophy.

Detailed reading of Plato's *Symposium* with special attention to the literary and rhetorical aspects.—L. Tarán.

Prerequisites: V1201, 1202, or their equivalents. Alternate years.

3 points. *M W 9:10-10:25.*

GRE V 3309x. Selections from Greek Literature, I.

Content of course changes each year; it may be taken in consecutive years.

Prerequisites: V1201, 1202, or their equivalents.

3 points. *Not offered in 1990-91. H*

GRE V 3310y. Selections from Greek Literature, II.

Content of course changes each year; it may be taken in consecutive years.

Prerequisites: V1201, 1202, or their equivalents.

3 points. *Not offered in 1990-91. H*

GRE V 3997x, GRE V 3997y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

Permission of the chairman of the department required.

3 points. *Hours to be arranged.*

GRE V 3998x, GRE V 3998y. Supervised Research in Greek Literature.

Program of research in Greek literature, with the composition of a paper embodying results.—Staff.

Permission of the chairman of the department required.

3 points. *Hours to be arranged.*

Greek W 4006y. Greek Historians.

Prerequisites: V 1201, 1202, or their equivalents.

3 points. *Not offered in 1990-91.*

GRE W 4009y. Selections from Greek Literature: Prose.

Content of course changes each year; it may be taken in consecutive years. Topic for 1990-91: Attic prose orators. Reading of the orators, speech writers and rhetorical theoreticians from Gorgias to Demosthenes, with special attention to language, development of rhetorical technique, civic consciousness, legal setting, and family dynamics. Examples

of both public orations and private court cases will be examined as social and literary documents.—D. Obbink.

Prerequisites: V1201, 1202, or their equivalents.

3 points. M W 2:40-3:55. H

GRE W 4010x. Selections from Greek Literature: Poetry.

Content of course changes each year; it may be taken in consecutive years. Topic for 1990-91: Greek tragedy. Texts to be studied include Euripides' *Phoenissae* and Sophocles' *Oedipus at Colonus*.—S. Said.

Prerequisites: V1201, 1202, or their equivalents.

3 points. M W 2:40-3:55. H

GRE W 4106x-GRE 4105y. History of Greek Literature.

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D.—x: S. Said; y: L. Slatkin.

Prerequisite: At least two terms of Greek beyond V1201, V1202.

4 points. M 4:10-6:00, W 4:10-5:00. H

GRE W 4139x. Elements of Greek Prose Style.

Intensive review of Greek syntax. Writing of sentences and connected passages in Greek.—D. Obbink.

Prerequisite: At least four terms of Greek or equivalent.

3 points. Tu Th 9:10-10:25.

LATIN LANGUAGE AND LITERATURE

LAT V 1101x-1102y; 1102x; 1101y. Elementary Full-Year Course.

V 1101: Grammar, composition and reading.

V 1102: Complete review of grammar and syntax; emphasis on representative readings.—Staff.

V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V 1102 is completed.

4 points.

V 1101x. Section 1: M W F 11:00-12:15.

Section 2: M W F 9:10-10:25.

Section 3: M W F 6:10-7:25.

V 1102x. Section 1: M W F 11:00-12:15.

Section 2: M W F 6:10-7:25.

V 1101y. Section 1: M W F 11:00-12:15.

Section 2: M W F 6:10-7:25.

V 1102y. Section 1: M W F 11:00-12:15.

Section 2: M W F 9:10-10:25.

Section 3: M W F 6:10-7:25.

LAT V1121x, y. Intensive Elementary Course.

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third semester Latin.—x: Staff. y: L. Lenaghan.

4 points. M W F 11:00-12:15

LAT V1201x, y. Latin Literature: Prose.

x: Staff. y: Staff.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: M W 11:00-12:15, F 11:00-11:50.

y: M W 9:10-10:25, F 9:10-10:00. H

LAT V 1202x, y. Latin Literature: Poetry.

Selections from Vergil, *Aeneid* or Ovid, *Metamorphoses*.—Staff.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Section 1: M W 1:10-2:15, F 1:10-2:00.

Section 2: M W 11:00-12:15, F 11:00-11:50.

y: M W 11:00-12:15, F 11:00-11:50. H

LAT V 1221y. Intensive Intermediate Latin.

Covers the content of Latin V 1201 and 1202 in one term. Readings from Cicero and from the *Aeneid* of Vergil or the *Metamorphoses* of Ovid.

Prerequisite: V 1101-V 1102, or V 1121, or the equivalent.

4 points. Not offered in 1990-91. H

LAT V 3012x. Lyric Poetry.

Selections from Catullus' polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics.—L. Lenaghan.

Prerequisite: V 1201, 1202 or four years of high school Latin.

3 points. M W 1:10-2:25. H

LAT V 3033y. Medieval Literature.

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—J. Magee.

Prerequisite: Three semesters of college Latin or permission of the instructor. Alternate years.

3 points. Tu Th 2:40-3:55. H

LAT W 4152x. Medieval Latin.

A survey of Latin prose of late Antiquity and the Middle Ages. Among the authors studied

Classics

will be Augustine, Cassiodorus, Bede, Einhard, John of Salisbury, Bonaventure.—J. Magee.

Prerequisite: Course V 3012 or the equivalent.
3 points. *M W 1:10-2:25.* H

LAT V 3305x. Historians.

Readings from Sallust's *Catiline* and Livy's *Book I*. Focus on the differences and similarities in the approach and style of the two authors as reflected in their choice of contemporary and mythological subject matter.—J. Rives.

Prerequisite: Course V3012 or the equivalent.
Alternate years.

3 points. *M W 11:00-12:15.* H

LAT V 3306x. Roman Satire.

Readings from Horace and Juvenal.

Prerequisite: V 3012 or the equivalent.

Alternate years.

3 points. *Not offered in 1990-91.* H

LAT V 3307y. Elegiac Poetry.

Selected readings from Tibullus, Propertius, and Ovid. *Prerequisite: V 3012 or the equivalent.*

Alternate years.

3 points. *Not offered in 1990-91.*

LAT V 3308y. Philosophy.

Prerequisite: V 3012 or the equivalent.

Alternate years.

3 points. *Not offered in 1990-91.* H

LAT V 3309x. Selections from Latin Literature, I.

Content of course changes from year to year; it may be taken for credit in consecutive years.

Prerequisite: V 3012 or the equivalent.

3 points. *Not offered in 1990-91.* H

LAT V 3310y. Selections from Latin Literature, II.

Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1990-91: Vergil's *Eclogues* and *Georgics*.—C. Dufner.

Prerequisite: V 3012 or the equivalent.

3 points. *M W 1:10-2:25.* H

Latin W 4008x. Cicero.

An introduction to the range of Ciceronian public writings and to the social and intellectual context in which they were composed. Selections from all the major genres of his works.—J. Zetzel.

Prerequisite: V 3012 or the equivalent.

3 points. *Not offered in 1990-91.*

LAT W 4010x. Selections from Latin Literature: Poetry.

Content of course changes each year; it may be taken in consecutive years. Topic for 1990-91: Roman Satire: selections from Horace and Juvenal.—C. Dufner.

Prerequisite: V 3012 or the equivalent.

3 points. *T Th 2:40-3:55.* H

LAT W 4009y. Selections from Latin Literature: Poetry.

Content of course changes each year; it may be taken in consecutive years. Topic for 1990-91: Roman Comedy: readings from Plautus and Terence, with attention to style, dramatic technique, and social context.—J. Zetzel.

Prerequisite: V 3012 or the equivalent.

3 points. *M W 11:00-12:15.* H

LAT V 3997x, y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

Permission of the chairman of the department required.

3 points. *Hours to be arranged.*

LAT V 3998x, y. Supervised Research in Latin Literature.

A program of research in Latin literature with the composition of a paper embodying results. —Staff.

Permission of the chairman of the department required.

3 points. *Hours to be arranged.*

LAT W 4105x, 4106y. History of Latin Literature.

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D.—x: L. Lenaghan. y: P. Knox.

Prerequisite: At least two terms of Latin beyond V 3012.

4 points. *M 4:10-6:00. W 4:10-5:00.* H

LAT W 4139x. Elements of Latin Prose Style.

Intensive review of Latin syntax. Writing of sentences and connected passages in Latin.—J. Magee.

Prerequisite: At least four terms of Latin or the equivalent.

3 points. *Tu Th 9:10-10:25.*

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. The courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y. Elementary Full-Year Course.

Introduction to Demotic Greek; emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading.—K. van Dyck.

No credit is given for V 1101 until V 1102 is completed.

4 points. Tu Th 4:10-6:00.

MGR V1201x. Intermediate Course, I.

Study of more complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis; grammar and syntax review; conversation; short weekly compositions.—K. van Dyck.

Prerequisite: V 1101-V 1102 or the equivalent.
4 points. Tu Th 1:10-2:25.

MGR V1202y. Intermediate Course, II.

Selected readings from modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a

basis for discussion and composition. Poems by Solomos, Palamas, Cavafy, Seferis; short stories and essays by Theotokas, Terzakis and others. The improvement of the student's language skills is still a primary goal.—K. van Dyck.

Prerequisite: V 1201 or permission of the instructor.

4 points. Tu Th 1:10-2:25.

MGR V 3310x. Poetry, Parody, and Politics.

Literary texts connected to the military dictatorship of 1967-74, with emphasis on the use and functions of parody. Readings include speeches, resistance songs, poetry of Ritsos, Seferis, and Sinopoulos as well as fiction and newspaper articles.—K. van Dyck.

Prerequisite: V 1202 or permission of the instructor.

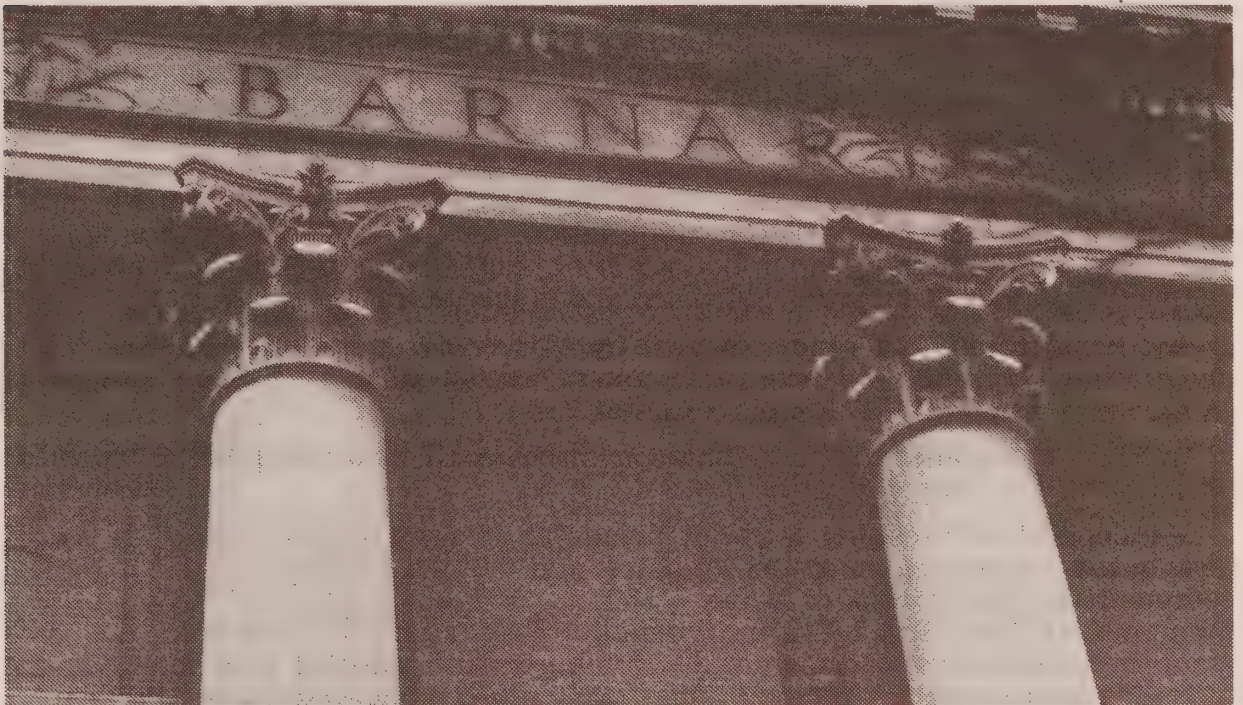
3 points. Tu Th 10:35-11:50.

MGR V 3306y. Orality and Literacy: Nineteenth and Twentieth Literature.

A retrospective examination of modern Greek literature, examining questions of canon formation, oral and written culture, and literature as a national institution. Contemporary literature and theory will be linked to earlier works; authors studied include Mastoraki, Laina, Ritsos, Seferis, Cavafy, Vizii-nos, Papadiamantis, and Solomos.—K. van Dyck.

Prerequisite: V 3305 or permission of the instructor.

3 points. Tu Th 10:35-11:50.



Computer Science

Office: 450 Computer Science Building

Telephone: 854-2736

University Professor Emeritus

Samuel Eilenberg

Professors

Theodore R. Bashkow, Zvi Galil (Chair), Jonathan L. Gross, Mischa Schwartz (Electrical Engineering), Thomas E. Stern (Electrical Engineering), Joseph F. Traub, Stephen H. Unger, Omar Wing (Electrical Engineering), Henryk Wozniakowski

Associate Professors

Gail E. Kaiser, John Kender, Gerald Q. Maguire, Jr. (Program Consultant), Kathleen McKeown, Salvatore Stolfo, Yechiam Yemini

Assistant Professors

Peter Allen, Terrance E. Boulton, Daniel J. Duchamp, Steven Feiner, Michael Foster, Calton Pu.

Senior Lecturer

Newcomb Greenleaf

Lecturers

Mark Kon, Robert G. Rieper (Program Consultant)

Adjunct Professor

Bruce Gilchrist

Adjunct Lecturers

David Bantz, Shlomo Bitter, Joan Feigenbaum, William Frakes, Jacob Gielchinsky, Kurt Keutzer, David Lee, Michael Merritt, Alexander Pasik, Robert Strom, Alexander Thomassian, Arthur Werschulz

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper-level courses is available in topics such as artificial intelligence, combinatorial methods, computational complexity and the analysis of algorithms, computer architecture and VLSI design, computer communications, computer graphics, computer vision, databases, distributed computing, expert systems, mathematical models for computation, natural language processing, programming environments, and robotics. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

Academic computing needs are met by University computing facilities which include Sun, DEC and IBM mainframes and microcomputers. Qualified majors often serve as consultants at the Computer Center.

In addition to course work, students sometimes assist faculty members on research projects.

The department's research facilities include lab areas for robotics, computer vision, distributed computing, computer graphics, and parallel architecture research. The computer facilities consist of a Sun 4/280; an IBM 4381; six DEC VAX 11/750s; numerous HP, Sun, IBM, DEC, and Symbolics workstations; HP real-time 3D shaded graphics workstations; and many microcomputers and assorted peripheral devices, including laser printers, plotters, a color scanner, and a high resolution Matrix color

Computer Science

film recorder. Most of the computing equipment connects to a departmental Ethernet which is gatewayed to a campus backbone network, as well as to INTERNET (through NYSERNET and BITNET) and USENET.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. First year students considering a Computer Science major should take W 1007. By taking an introductory course early in their college years, non-majors are able to use computers more effectively in their upper-level studies in other departments.

NOTE: Students majoring or minoring in Computer Science should take Computer Science W 1007 and W 3137, rather than Computer Science W 1003 and W 3131. Students who have taken Computer Science W 1003 before Fall 1989 or W 3131 before Fall 1990 may still count these other courses toward a major or minor, or use them to satisfy the prerequisites of advanced courses.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year.

A total of 15 courses are required for the major.

W 1007	<i>Introduction to Computer Programming D</i> (preferably in the first year)
Mathematics	<i>Calculus I and II</i> (preferably in the first year)
W 3137	<i>Data Structures B</i> (preferably in the sophomore year)
W 3152	<i>Software Design Laboratory</i> (preferably in the sophomore year)
W 3203	<i>Discrete Mathematics</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
W 3244	<i>Probability and Matrix Models</i>
W 3261	<i>Computability and Models of Computation</i>
W 3823	<i>Digital Logic</i>
W 3824	<i>Computer Organization, I</i>
W 4115	<i>Programming Languages and Translators</i>
W 4701	<i>Artificial Intelligence</i>

and an approved choice of two additional upper-level computer science courses.

Note: A student may, substitute Mathematics V 3202 (*Linear Algebra*) and either ENG MATE 3658 (*Introduction to Probability*) or Stat-IEOR W 4150 (*Introduction to Probability and Statistics*) for W 3244 if desired; in which case one of these will count toward the elective requirement. Both of these courses must be taken to allow the substitution.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3137, W 3232, W 3823, and one of the following: W 3824, W 4115, or W 4701.

COURSES OF INSTRUCTION

CSC W 1001x, y. Introduction to Computer Programming, A.

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems

in familiar applications, such as payroll, computer-assisted instruction ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. PASCAL.—Instructor to be announced.

3 points. x: Tu Th 1:10-2:25.

y: Tu Th 5:40-6:55.

Computer Science

CSC W 1003x, y. Introduction to Computer Programming, B.

Intended primarily for engineering students. General introduction to computer programming. Structured program design. Pascal.—Instructor to be announced.

3 points. *x: M W 6:00-7:15.*

y: Hours to be arranged.

CSC W 1005x, y. Introduction to Computer Programming, C.

Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN.—L. Lidofsky.

3 points. *M W 11:00-12:15.*

CSC W 1007x, y. Introduction to Computer Programming, D.

An honors-level introduction to computing, intended primarily for students considering a major in computer science. The structure and interpretation of computer programs. Building abstractions with data and procedures. Taught in the Scheme dialect of LISP (no previous knowledge of LISP assumed).

3 points.

x: Sec. 1: Tu Th 9:30-10:45. N. Greenleaf.

Sec. 2: Tu Th 6:10-7:25. A. Pasik.

y: Hours to be arranged.

CSC W 3101x, y. Programming Languages.

Introduction to a programming language. Each section is devoted to a specific language. Intended only for those who are already fluent in at least one programming language. Sections may meet for one hour per week for the whole semester or for three hours per week for the first third of the semester. May be repeated for credit if different languages are involved.—Instructors to be announced.

1 point.

Sec. 1 (C) Th 9:30-10:20.

Sec. 2 (C) M W 9:30-10:45.

Sec. 3 (LISP-5 weeks only) M W 9:30-10:45.

CSC W 3107x, y. Structure and Interpretation of Computer Programs.

Structure and interpretation of computer programs. Building evaluators and compilers for LISP expressions. Designing register machines. Garbage collecting. Logic programming and query systems.—Instructor to be announced.

Prerequisite: W 1007.

3 points. *Hours to be arranged.*

CSC W 3131x, y. Data Structures, A.

Data types and structure: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs; programming techniques for processing such structures; sorting and searching, hashing, garbage collection; storage management, rudiments of the analysis of algorithms.

Not intended for computer science majors. Taught in Pascal.

Prerequisite: W 1003 or knowledge of Pascal.

3 points.

x: M W 6:10- 7:25.—C. Pu.

y: Hours to be arranged.

CSC W 3137x, y. Data Structures, B.

Data types and structures: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs. Programming techniques for processing such structures: sorting and searching, hashing, garbage collection. Storage management. Rudiments of the analysis of algorithms. A knowledge of Scheme is assumed and students will be expected to learn C.—Instructor to be announced.

Prerequisite: W 1007. Corequisite: W 3203.

3 points. *Hours to be arranged.*

CSC W 3152x, y. Software Design Laboratory.

It is strongly recommended that this be taken concurrently with W 3232. Programming in C. Programming methodology including structured programming, data abstraction, top-down design, and modular decomposition. Programming and debugging tools and strategies. An introduction to building large software systems. Substantial programming is required. This course is a prerequisite for all 4000-level software courses.—Instructor to be announced.

Prerequisite: CSC W 3137.

3 points. *x: Tu Th 11:00-12:15.*

CSC W 3203x, y. Discrete Mathematics: Introduction to Combinatorics and Graph Theory.

Mathematical induction, counting arguments (permutations and combinations, elementary finite probability, generating functions, recurrence relations, inclusion-exclusion principle), and topics in graph theory (isomorphism, planarity, circuits, trees, and directed graphs).—Instructor to be announced.

Prerequisite: Any introductory programming course.

3 points. *x: Tu Th 5:40- 6:55.*

y: Hours to be arranged.

Computer Science

CSC W 3205x, y. Introduction to Discrete Structures.

Sets, relations and functions, logic, algebraic structures. Applications to computing. — Instructor to be announced.

3 points. Hours to be arranged.

CSC W 3232x, y. Fundamental Algorithms.

Pattern matching, lexical analysis, parsing, backtracking, divide and conquer, generating combinatorial objects, graph searching, spanning trees, external sorting and searching, 2-3 trees, balanced trees, B-trees, files; elements of data base design; other topics as time permits. Analysis of algorithms is stressed throughout.—Instructor to be announced.

Prerequisite: W 3137.

3 points. Tu Th 9:30-10:45.

CSC W 3244y. Probability and Matrix Models.

Mathematical methods and their application to probabilistic and linear models. Probability theory, stochastic models, solutions to systems of linear equations, linear programming, and game theory.—Instructor to be announced.

Prerequisite: CSC W3203.

3 points. M W 11:00-12:15.

CSC W 3251y. Scientific Computation.

Major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares and the eigen values. The computational complexity of some of these problems will be discussed. The computer implementation of algorithms is stressed.—J. Traub.

Prerequisites: Calculus I and II, MATE 1210, ENG MATE 3101.

3 points. Hours to be arranged.

CSC W 3261x, y. Computability and Models of Computation.

Regular languages, finite automata, regular grammars, non-determinism, regular expressions. Context-free languages, push-down automata, context-free grammars, parsing. Turing machines, general grammars, computability, the Chomsky hierarchy, the Church-Turing thesis, other models of computation.—N. Greenleaf.

Prerequisite: W 3137 and W 3203.

3 points. x: Tu Th 2:40- 3:55.

y: Hours to be arranged.

CSC W 3823x, y. Digital Logic.

Number representation, boolean algebra, combinational logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters and other basic functional circuits, sequential circuits, clocking.

Prerequisite: Any introductory programming course.

3 points.

x: Tu Th 1:10- 2:25. T. Bashkow.

y: Hours to be arranged.

CSC W 3824x,y. Computer Organization I.

Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALU's, interrupts, memory, pipelining, I/O.

Prerequisite: CSC W 3823.

3 points.

x: Tu Th 1:10-2:25. Instructor to be announced.

y: Tu Th 1:10-2:25. T. Bashkow.

CSC W 3998x, y. Undergraduate Projects in Computer Science.

This course may be repeated for credit but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design.—Staff.

Prerequisite: Approval by a faculty member who agrees to supervise the work.

Up to 3 points. Hours to be arranged.

CSC W 4111x, y. Database Systems.

Introduction to database systems: data modeling; logical design of relational databases; data definition and data manipulation languages; storage and indexing techniques; concurrency control; recovery; query processing; security and integrity; system administration; essentials of distributed operation.—D. Duchamp.

Prerequisite: CSC W 3152, W 3232, W 3824 or permission of the instructor.

3 points. x: Tu Th 5:40-6:55.

CSC W 4115x, y. Programming Languages and Translators.

Covers language design issues; syntax; the translation process; names, locations and values; control structures; data types; input and output; procedures and parameters; nesting

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and scope; definition of new data types; dynamically varying structures; applicative languages; exception handling; parallel processing; and separately compiled modules. A large language implementation project is required.—G. Kaiser.

Prerequisite: W 3152, W 3232, W 3261, W 3824, or permission of the instructor.
3 points. M W 4:10-5:25.

CSC W 4118x, y. Operating Systems.

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor scheduling, device management I/O, and file systems. Case study of the UNIX operating system. A programming project will be required.—x: D. Duchamp. y: C. Pu.

Prerequisites: W 3152, W 3232, W 3824 or permission of the instructor.
3 points. x: Tu Th 2:40-3:55.
y: Hours to be arranged.

CSC W 4119x or y. Computer Networks.

The design of system software to support computer networks, layered protocol architecture, distributed operating systems. A programming project will be required.—G. Maguire.

Prerequisite: W 4118.
3 points. M W 11:00-12:15.

CSC W 4156x or y. Software Engineering.

Design and implementation of software systems. The software life cycle: requirements definition, specification, design, implementation, testing, and maintenance. User interfaces. Documentation. Management. Verification. A substantial group project is required.—S. Feiner.

Prerequisite: W 3152, W 3232 or permission of the instructor. *Recommended preparation:* W 4118.
3 points. M W 1:10-2:25.

CSC W 4160x or y. Computer Graphics.

An intensive introduction to computer graphics. Graphics hardware, design of graphics packages, interaction techniques, geometric transformations, 3D viewing and projections, raster scan conversion algorithms, image synthesis, visible surface determination, lighting and shading, representation of 3D shapes, object modeling and hierarchy, color, and animation. Advanced

topics as time permits. Emphasis is on implementation of important graphics algorithms.—S. Feiner.

Prerequisites: W 3232, and either W 3152 or W 4156.

Previous familiarity with C and UNIX is recommended.

3 points. Hours to be arranged.

CSC W 4201x, y. Theory of Computation.

Theory of computation, structure of complexity classes, computational complexity theory, feasible and infeasible computations.

Prerequisite: W3261 or the instructor's permission.
3 points. Hours to be arranged.

CSC W 4203x. Graph Theory.

General introduction to graph theory, emphasizing algorithms. Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search, network flows, bipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits.—Instructor to be announced.

Prerequisite: W 3203.
3 points. Not offered in 1990-91.

CSC W 4205x, y.

Combinatorial Theory.

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits.—Instructor to be announced.

Prerequisites: CSC W 3203 and a course in calculus.
3 points. Hours to be arranged.

CSC W 4231x. Analysis of Algorithms I.

CSC E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms; counting and asymptotic evaluation analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations. Fourier transform; models of computation; the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various models;

Computer Science

worst-case and average behavior of algorithms; Diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and Khacian methods; average behavior of the simplex method. Other topics as time permits.—Z. Galil.

Prerequisites: W 3137, W 3203.

3 points. x: M W 11:00-12:15.

CSC W 4241x. Numerical Algorithms and Their Complexity I.

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of non-linear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. Some of these topics are covered in the sequel, CSC W 4242y.—J. Traub.

Prerequisite: Knowledge of programming language. Some knowledge of differential equations and linear algebra is desirable.

3 points. x: M W 1:10-2:25.

CSC W 4242y. Numerical Algorithms and Their Complexity II.

A continuation of CSC W 4241x.

Prerequisite: CSC W 4241x.

3 points. Hours to be arranged.

CSC W 4701x, y. Artificial Intelligence.

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching; depth-first breadth-first, best-first, hill-climbing, divide and conquer, minimax, alpha-beta, predicate calculus, resolution theorem-proving; Horn clause theorem-provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits.

Prerequisite: W 3137.

3 points. x: Tu Th 4:10-5:25. S. Stolfo.

y: Hours to be arranged. Instructor to be announced.

CSC W 4705y. Natural Language Processing.

An introduction to the artificial intelligence approach to human language processing.

Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP is recommended.—K. McKeown.

Prerequisite: W 3137.

3 points. Hours to be arranged.

CSC W 4721x, y. Knowledge-based Expert Systems.

Focus is on current methods of implementing AI expert systems. Topics covered include the structure of problem-solving engines and knowledge bases for expert performance; problem taxonomies; methods to automate the acquisition of human experiential knowledge, methods to automate the explanation of problem-solving behavior; examples of existing expert systems and their application areas.—S. Stolfo.

Prerequisite: W 4701.

3 points. Hours to be arranged.

CSC W 4731x, y. Computer Vision.

The fundamentals of computer vision, viewed from an artificial intelligence perspective. Image formation. Low-level processing: edge detection, stereo, shape from shading, optical flow. Middle-level processing: line and curve aggregation, region growing, texture, image sequences. High-level processing: shape representations in two and three dimensions. Image understanding: knowledge bases, matching, inference, and planning. Other topics as time permits. Course programming project required.—J. Kender.

Prerequisite: W 4701 or permission of the instructor.

3 points. x: Tu Th 4:10-5:25.

CSC W 4733y. Computational Aspects of Robotics.

Introduction to robotics from a Computer Science perspective. Topics include coordinate frames and kinematics, computer architectures for robotics, integration and use of sensors, world modeling systems, design and use of robotic programming languages, and applications of artificial intelligence for planning, assembly and manipulation.—P. Allen.

Prerequisite: W 4701.

3 points. Hours to be arranged.

Computer Science

CSC G 4801x. Mathematical Logic.

Introduction to mathematical logic. Fundamental notions of set theory and recursion theory; detailed discussion of propositional and predicate logic, completeness, undecidability, and theorem-proving.—Instructor to be announced.

Prerequisite: Permission of the instructor.
3 points. Not offered in 1990-91.

Computer Science-Philosophy CSP G 4802y. Mathematical Logic II.

Axiomatic set theory: ordinals, cardinals, the axiom of choice, models of set theory. Definability; hierarchies of sets of integers. Connections between set theory and theory of computability.—Instructor to be announced.

Prerequisite: G 4801 or equivalent.
3 points. Not offered in 1990-91.

CSC W 4841x or y. Introduction to VLSI.

Introduction to the structure and design of VLSI systems. Topics include (but are not limited to) VLSI machine organization and

algorithm specification, hierarchical structuring of planar systems, system primitives (e.g., PLAs, registers, function units), area/time trade-offs, design synthesis and verification techniques.—Instructor to be announced.

Prerequisites: W 3261 and W 3284.
3 points. Hours to be arranged.

CSC W 4995x, y. Special Topics in Computer Science.

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis. This course may be repeated for credit.—Instructor to be announced.

Prerequisite: Permission of the instructor.
3 points. Hours to be arranged.

CSC W 4996x, y. Special Topics in Computer Science.

A continuation of Course W 4995, when the special topic is to be offered over two semesters.—Instructor to be announced.

Prerequisite: permission of the instructor.
3 points. Hours to be arranged.



Dance

Office: 204 Barnard Hall Annex

Telephone: 854-2995

Professor
Sandra Genter

Adjunct Professor
Tobi Tobias

Senior Lecturer
Janet Soares (Chair)

Assistant Professor
Ellen Graff

Senior Associate
Janis Ansley-Ungar

Instructors
Elisabeth Fleischer, Francine Landes

Lecturers
Marcos Dinnerstein, Virginia Parks

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill in choreography, and critical understanding of the art of dance as a part of history and culture. Students graduating with a degree in dance may pursue professional careers as performers, choreographers, or dance writers; some students undertake graduate work in dance history, notation, dance therapy, arts management, dance education, and other related fields.

Studios and theaters in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach and choreograph and present symposia, workshops, and concerts throughout the year.

All dance courses except Senior Seminar are open to students who meet the prerequisites. Students accepted as majors may take certain courses in the Dance Division of Juilliard School, and also classes with artist teachers in conjunction with their dance study within the department. Barnard College is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in their first year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR

A minimum of thirteen courses are required for the dance major. A Senior Major Project must be completed either in a research thesis or a performance in dance under the supervision of a chosen department adviser.

I. Nine required courses must include:

DAN BC 2561	<i>Anatomy for the Dancer and Technique</i>
DAN BC 2562	<i>Movement Analysis and Technique</i>
DAN BC 2563	<i>Form in Dance Composition</i>
DAN BC 2564	<i>Content in Dance Composition</i>
DAN BC 2565	<i>History of Dance I</i>
DAN BC 2566	<i>History of Dance II</i>
DAN BC 3571	<i>Performance Styles and Technique</i>
DAN BC 3572	<i>Repertory in Production and Technique</i>
DAN BC 3591	<i>Senior Seminar</i>

II. Two courses elected from the following:

DAN BC 2555	<i>Dance Repertory: Construction and Analysis</i>
DAN BC 2567	<i>Fundamentals of Music for Dancers</i>
DAN BC 3567	<i>Dance Criticism</i>

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DAN BC 3574

Seminar on Contemporary Choreographers and Their Works

III. Two non-department courses including:

ARS BC 3031

Imagery and Form in the Arts

and one to be elected in pursuit of the historical and cultural contexts of dance which will fulfill both the major and distribution requirements. Courses in philosophy of art, cultural history, art, music and theatre history, anthropology, and religion, may be chosen with permission of department chair.

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chair.

COURSES OF INSTRUCTION

DAN BC 1551x, DAN BC 1552y. Modern Dance Technique and Theory.

Studio work in intermediate modern dance technique, including study of the elements of movement based on the theories and techniques of selected modern dance artists. Emphasis is on experiencing dance; readings, videos/films, developing short movement studies, and discussion accompany the studio work.—x: E. Graff, y: S. Genter.

Prerequisite: Intermediate skill level in modern dance technique.

2 points. M W 12:30-2:00.

DAN BC 1553x, DAN BC 1554y. Ballet Technique and Theory.

Studio work in intermediate ballet technique, including study of the components of movement using examples selected from various ballet traditions. Emphasis is on experiencing ballet as a dance technique. Comparison of the styles of the different schools through the study of variations; readings, videos/films, developing short movement studies, and discussion accompany the studio work.—J. Ansley-Ungar.

Prerequisite: Intermediate skill level in ballet technique.

2 points. M W 2:30-4:00.

Dance BC 2555x. Dance Repertory: Construction and Analysis.

The learning of excerpts and an entire dance work from the ensemble repertory of major choreographers as well as a commissioned work by a professional. Introduction to reading Labanotation, viewing videos/films, readings, written analyses and final paper accompany the studio work.—S. Genter.

Prerequisite: Intermediate skill level in ballet or modern dance.

3 points. Tu Th 4:10-5:30.

DAN BC 2561x. Anatomy for the Dancer and Technique.

Functional anatomy for the dancer; study of the structural and mechanical principles of human movement. Assignments include readings and periodic writing assignments.—S. Genter.

Prerequisite: Intermediate skill in either ballet or modern dance. Permission of the instructor required.

4 points. F 12:10-2:00, plus five studio classes to be arranged.

DAN BC 2562y. Movement Analysis and Technique.

Analysis of space, time, and dynamics in dance movement, including exploration of how these elements operate in producing dance style. Assignments include readings, viewing videos/films and developing short movement studies.—S. Genter.

Prerequisite: Intermediate skill level in either ballet or modern dance. Permission of the instructor required.

4 points. F 12:10-2:00, plus five studio classes to be arranged.

DAN BC 3571x. Performance Styles and Technique.

Advanced analysis of movement with emphasis on interrelationships and varying uses of rhythm, space, and dynamics for the developing dancer. Assignments include learning excerpts from dance repertory, readings, periodic writing assignments, and presentation of solo repertory work.—J. Ansley-Unger.

Prerequisites: DAN BC 2561 and BC 2562.
4 points. F 12:10-2:00, plus five studio classes to be arranged.

DAN BC 3572y. Repertory in Production and Technique.

Advanced analysis of the relationship of technique to style in dance movement through the

Dance

study of specific dance works. Assignments include study of the materials through readings, films, and videotapes; periodic writing assignments; performance of the dance, with students responsible for lighting and costuming the presentation.—J. Soares.

Prerequisites: DAN BC 2561, BC 2562, and BC 3571.

4 points. F 12:10-2:00. plus five studio classes to be arranged.

DAN BC 2563x. Form in Dance Composition.

Development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement.—J. Soares.

Prerequisite: Facility in dance technique.

Permission of the instructor required.

Enrollment limited to 12 students.

3 points. Tu Th 12:00-1:30.

DAN BC 2564y. Content in Dance Composition.

Research in the source materials of dance composition and exploration of their uses in choreography, including gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis on unity of style in the work of each student.—J. Soares.

Prerequisite: Facility in dance technique.

Permission of the instructor required.

Enrollment limited to 12 students.

3 points. Tu Th 12:00-1:30.

DAN BC 2565x, DAN BC 2566y. History of Dance.

This course investigates dance history through critical analysis of film, video, reading, and demonstration. Autumn Term: Multicultural Perspectives, the history of dance in major culture areas of the world. Spring Term: the history of theater dance forms in Europe and America from the Renaissance to the present.—Ellen Graff.

3 points. Tu Th 10:35-11:50.

H

DAN BC 2567y. Fundamentals of Music for Dancers.

An intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of the elements of rhythm, tonality, musical structure, texture and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading and elementary composition.—E. Fleischer.

3 points. F 2:10-4:00.

DAN BC 3099x, or DAN BC 3099y.

Independent Study.

—Staff.

1-4 points.

DAN BC 3574x. Contemporary Choreographers and Their Works.

Form, style and content of selected contemporary choreographers. Sources include film, videotape, attendance at rehearsals and concerts, and interviews.—S. Genter and guest choreographers.

Alternate years.

3 points. Not offered in 1990-91.

DAN BC 3576y. Dance Criticism.

Intensive practice in writing about dance. Readings drawn from nineteenth- and twentieth-century dance criticism. Observation includes weekly performances and classroom videotape sessions.—T. Tobias.

Prerequisite: Facility in writing. sample of which must be submitted to Dance Office prior to first class meeting. *Permission of the instructor required. Enrollment limited to 12 students.*

Alternate years.

3 points. Not offered in 1990-91.

ARTS BC 3031x. Imagery and Form in the Arts.

The operation of imagery and form in dance, music, theatre, visual arts and writing; students are expected to do original work in one of these arts. Concepts in modernist theory will be explored.—J. Snitzer.

3 points. M 2:00-4:00. M 6:00-7:00 Artsforum.

DAN 3591x. Senior Seminar.

Contemporary issues in the arts, with reports and projects leading to a thesis or performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration.—J. Soares.

3 points. Tu 2:00-4:00. M 6:00-7:00 Artsforum.

STUDIO DANCE COURSES

Courses listed below may be offered in fulfillment of the physical education requirement.

For information regarding time and place of classes and instructors, consult the Directory of Classes.

Dance

Modern Dance

Technique of contemporary dance with particular emphasis on good alignment and an understanding of the principles of body movement; opportunities for experiments in improvisation and in learning movement phrases.

DAN BC 1329x, y. Fundamentals of Dance Movement.

Introduction to basic skills common to both modern dance and ballet.

DAN BC 1331x, y. Elementary Modern Dance. (ELM)

DAN BC 2332x, y. Intermediate Modern Dance. (INT)

DAN BC 3333x, y. Advanced Modern Dance. (ADV)

Ballet

Technique of classical ballet.

DAN BC 1136x, y. Elementary Ballet. (ELM)

Previous study of another dance style strongly recommended before beginning ballet.

DAN BC 2137x, y. Intermediate Ballet. (INT)

DAN BC 3138x, y. Advanced Ballet. (ADV)

DAN BC 3139x, y. Classic Variations (For major, minors, and by audition.)

Jazz Dance

Incorporation of ballet and modern dance technique in the distinctive style of jazz dance.

DAN BC 2248y. Intermediate Jazz Dance. (INT)

Tap Dance

Basic tap dance steps and dances of traditional tap styles, including buck, soft shoe, and rhythm buck.

DAN BC 1446x. Elementary Tap Dance. (ELM)

DAN BC 2447y. Intermediate Tap Dance. (INT)



Economics

Office: 4A Lehman Hall

Telephone: 854-3454

Professors

Duncan Foley, William Lazonick, Deborah Milenkovitch (Chair)

Visiting Professors

J. Greenbaum, Seymour Melman

Associate Professor

Andre Burgstaller

Assistant Professors

Cecilia Conrad¹, Maria Crummett, Jayasri Dutta², Christopher Grandy, Perry Mehrling¹

Adjunct Assistant Professors

Ramesh Deonaraine, Della Sue

Other officers of the University offering courses listed below:

Professors

Philip D. Cagan, Graciela Chichilnisky, Padma Desai, Donald Dewey, Richard Ericson, Ronald E. Findlay, Robert Mundell¹, Hugh Patrick (*Graduate School of Business*), Edmond Phelps, Stanislaw Wellisz, Eliot Zupnick

Associate Professor

Asad Zaman

Assistant Professors

Ricardo Caballero, Prajit Dutta, Susan Elmes, D. Holtz-Eakin, Gregory Leonard, Katherine Morgan, Patricia Mosser³, Brendan O'Flaherty, Steven Sklivas, Aaron Tornell²

Adjunct Professors

Michael Edelstein, Vahid Nowshirvani, Carl Riskin, Lewis Schier

¹Absent on leave 1990-91

²Absent on leave Autumn Term

³Absent on leave Spring Term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. Barnard's major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the programs is (i) to foster a critical understanding of economics and its relations to other disciplines; (ii) to develop students' mastery of modern economic theory and tools of analysis.

Students planning to major in economics or political economy should complete an intermediate macro- or microeconomic theory course before the beginning of their junior year. Students must complete all of their required courses for the major as well as their upper-level electives (those requiring an intermediate micro- or macro-economic theory course as a prerequisite and, for Political Economy track majors, the upper-level political science course) before they are allowed to register for the senior essay.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary

Economics

analysis, but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department as early in their planning as possible.

Economics

The Economics track major requires 2 courses in calculus and 9 in economics including:

Economics BC 3033	<i>Intermediate Macroeconomic Theory</i>
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics BC 3041	<i>The Theoretical Foundations of Political Economy</i>

One of the following three sequences:

A. Economics BC 2411	<i>Statistics for Economics</i>
Economics BC 3018	<i>Econometrics</i>
B. Economics BC 2411	<i>Statistics for Economics</i>
Economics BC 2412	<i>Empirical Methods for Economics</i>
C. Statistics W 1111	<i>Introduction to Statistics</i>
Economics BC 3018	<i>Econometrics</i>

2 electives, which require an intermediate micro- or macroeconomic theory course as a prerequisite; and

Economics BC 3061-BC 3062	<i>Senior Research Seminar</i>
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Political Economy

The Political Economy track major requires 11 courses, including

Economics BC 3033	<i>Intermediate Macroeconomic Theory</i>
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics BC 3041	<i>The Theoretical Foundations of Political Economy</i>

3 electives which require an intermediate micro- or macroeconomic theory course as a prerequisite:

2 electives in economics (*excluding* introductory economics), or a related discipline;

one upper-level course in political science*; and

Economics BC 3061-BC 3062	<i>Senior Research Seminar.</i>
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*The following Political Science courses are *not* considered upper-level:

BC 3001	<i>Dynamics of American Politics;</i>
V 3505	<i>Introduction to Comparative Politics;</i>
V 3611	<i>International Politics;</i>
BC 3013	<i>Political Theory.</i>

(NOTE: The major requirements listed above are mandatory only for students who graduate *after* October 1990. A list of the major requirements for students who graduate by October 1990 can be obtained from the “General Information for Economics Students” pamphlet available at the department office.)

Economics

Both Economics and Political Economy track majors **must** file the “Major Requirements Declaration” form—available from the department office—no later than registration of the first semester of their senior year. This form must be approved by the chair before a student will be allowed to register for the senior thesis, BC 3061-BC 3062.

Political Economy majors who plan to go on to graduate school in business or in international relations with an economics concentration should take one semester of credit college math (either pre-calculus or calculus), and Economics BC 2411.

Political Economy majors who plan to go on to graduate school Ph.D. programs in economics should take one year of calculus, Economics BC 2411, and Econometrics among their economics electives.

Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry. Beyond that, we highly recommend that majors take at least two semesters of calculus (required of Economics-track majors). “*General Information for Economics students*” (available at the department office) contains specific departmental suggestions concerning appropriate mathematics courses.

REQUIREMENTS FOR THE MINOR

The minor in economics requires five courses, including an introductory course in economics, BC 3033 or BC 3034 or BC 3035, and three electives, one of which has an intermediate micro- or macroeconomics theory course as a prerequisite.

COURSES OF INSTRUCTION

Barnard Economics BC 3033 and BC 3034 are equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211.

GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

ECO BC 1001x, ECO BC 1001y. Introduction to Economics.

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government, finance and monetary economics, economic growth and inequality (Macroeconomic Principles).—Staff.

3 points.

x: Section 1 Tu Th 2:40-3:55.

Section 2 Tu Th 1:10-2:25.

Section 3 M W 1:10-2:25.

y: Section 1 M W 1:10-2:25.

Section 2 Tu Th 9:10-10:25.

Section 3 Tu Th 2:40-3:55.

S

ECO BC 1002x, ECO BC 1002y.

Introduction to Economics.

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through supply and demand, market structures, international economics, problems of developing

nations, and alternative economic systems (Microeconomic Principles).—Staff.

BC 1001 is **not** a prerequisite for BC 1002.

3 points.

x: Section 1 Tu Th 9:10-10:25.

Section 2 Tu Th 10:35-11:50.

y: Section 1 Tu Th 1:10-2:25.

Section 2 M W 11:00-12:15.

ECO BC 2411x. Statistics for Economics.

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One hour weekly recitation sessions to complement lectures.—D. Sue

4 points. M W 1:10-2:25.

CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches. *Prerequisite: An introductory course in economics or permission of the instructor.*

ECO BC 2010x. Sex, Discrimination, and the Division of Labor.

3 points. Not offered in 1990-91.

S

ECO BC 2013y. Economic History of the United States.

An introduction to the rise and decline of U.S. economic power. Beginning with the social transformations of the late 19th and early

Economics

20th century that permitted the U.S. to surpass Britain as the world's leading industrial economy and concludes with the rise of Japanese competition in the late 20th century. Reasons for the United States current economic decline; long-term social and economic policies to ensure U.S. economic prosperity.—W. Lazonick.

3 points. Hours to be arranged. S

ECO BC 2014y. Topics in American Economic History.

3 points. Not offered in 1990-91. S

ECO BC 2024y. Women in International Development.

An exploration of the critical issues related to Third World women as they have emerged over the past decade: the effects of development on poor urban and rural women.—M. Crummett.

3 points. Not offered in 1990-91. S

ECO BC 2025x. World Economy.

3 points. Not offered in 1990-91.

ECO BC 2026y. Modern Capitalism.

J. Greenbaum.

3 points. Tu Th 2:40-3:55. S

ECO BC 2028x. Economic Development of Latin America.

3 points. Not offered in 1990-91. S

ECO BC 2057x. The War Economy.

The micro- and macroeconomics of military industry and its government management. Consequences for civilian industry and economy. Conditions of conversion from military to civilian economy.—S. Melman.

3 points. M W 2:40-3:55. S

SPECIALIZED COURSES

ECO BC 2412x,y. Empirical Methods for Economics.

A weekly recitation section to develop practical applications of techniques learned in the first semester of statistics or statistics for economics. To develop a testable model, collect data, and determine an appropriate statistical test. (To be taken only in conjunction with one of a specified set of other courses at an upper level determined annually by the department.)—Instructor to be announced.

Prerequisites: BC 2411 or STA W 1111 and permission of the instructors in both courses.

1 point. Hours to be arranged.

ECO BC 3011x. Poverty and Income Distribution.

Issues of definition and measurement relating to poverty and distribution of income in the U.S., analysis of cross section and time-series data; alternative economic theories of poverty and income distribution, e.g., transfers, wage subsidies, training programs.—D. Sue.

Prerequisite: Intermediate Micro- or Macroeconomic Theory or permission of the instructor.

3 points. M W 2:40-3:55. S

ECO BC 3016x. Government Finance and Fiscal Policy.

Principles of government expenditure and taxation; alternative theoretical perspectives on government's role in a "mixed economy"; structure of U.S. tax system, with emphasis on tax incidence, the effects of taxes on economic behavior, and detailed analysis of selected policy issues.—C. Grandy.

Prerequisite: Intermediate Microeconomic Theory, or permission of the instructor.

3 points. Tu Th 10:35-11:50. S

ECO BC 3018y. Econometrics.

Specification, estimation, and evaluation of economic relationships using economic theory, data and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets.—J. Dutta.

Prerequisites: Intermediate Micro- or Macroeconomic Theory and BC 2411, or permission of the instructor.

4 points. Lecture M W 2:40-3:55.

Laboratory hours to be arranged. S

ECO BC 3019x. Labor Economics.

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

3 points. Not offered in 1990-91. S

ECO BC 3021y. The Regulation of Industry.

The economic effects of government regulation of industry; the history, structure, and organization of regulatory agencies; the theory of natural monopoly and public utility pricing; the costs and benefits of health and safety regulation; case studies of specific industries.—Instructor to be announced.

Prerequisite: Intermediate Microeconomic Theory.

3 points. Not offered in 1990-91. S

Economics

ECO BC 3029x. The Economics of Underdeveloped Areas.

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy.—M. Crummett.

Prerequisite: Intermediate Micro- or Macroeconomic Theory or permission of the instructor.

3 points. M W 11:00-12:15. S

ECO BC 3030y. Comparative Economic Systems.

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

3 points. Not offered in 1990-91. S

ECO BC 3033x, y. Intermediate Macroeconomic Theory.

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments. Weekly recitation section to complement lectures.

Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.

4 points. Students may not take BC 3033 for credit in addition to BC 3034.

x: Primarily for majors in the Economics track. Tu Th 1:10-2:25.—A. Burgstaller.

y: Primarily for students in the Political Economy track. Tu Th 9:10-10:25.—R. Deonaraine. S

ECO BC 3034x. Intermediate Macroeconomic Theory.

Mainstream and other macroeconomic models concerning business cycles, unemployment, inflation, and the distribution of income (in less mathematical detail than in BC 3033). The aim of the course is to make students familiar with the principal schools of macroeconomic thought, so that they may better assess how well such theories illuminate contemporary issues. Weekly recitation section to complement lectures.—M. Crummett.

Prerequisite: An introductory course in economics or permission of the instructor. Primarily for majors in the Political Economy track. Students may not take BC 3034 for credit in addition to BC 3033.

4 points. Not offered in 1990-91. S

ECO BC 3035x, y. Intermediate Microeconomic Theory.

Behavior of markets, resource allocation, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures.

4 points.

x: Prerequisites: An introductory course in economics or permission of the instructor, 2 semesters of calculus for economists (Calculus IE, IIE) or 3 semesters of regular calculus (Calculus I, II, III). This section is primarily for students in the Economics track.—D. Foley.

M W F 9:00-9:50. S

y: Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track.—C. Grandy.

Tu Th 10:35-11:50. S

ECO BC 3036x. Financial Markets.

Institutional nature and economic function of financial markets. Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, eurocurrency, futures, options, and other). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis; macroeconomic factors and asset returns.—C. Grandy.

Prerequisites: Intermediate Micro- or Macroeconomic theory and BC 2411 or the equivalent.

3 points. Tu Th 2:40-3:55. S

ECO BC 3037y. Growth, Distribution and Money.

Classical theories of growth, distribution and their modern developments. The effects of distribution between wages and profits on long-term rates of economic growth. Relations between growth of money and finance and economic growth, and the theory of inflation. Multi-sectoral growth models, relative prices, the average rate of profit. Growth with limited resources. Non-steady-state models.

Economics

Applications to the study of real economies.—D. Foley.

Prerequisites: Intermediate Macroeconomic or Microeconomic Theory or permission of the instructor.

3 points. Tu Th 10:35-11:50. S

ECO BC 3041x, y. The Theoretical Foundations of Political Economy.

Intellectual origins of the main schools of thought in political economy. Classical political economy, Marxian economics, Neo-classicism, Keynesianism, and Monetarism. Theoretical controversies in twentieth-century political economy.

Prerequisite: An introductory course in economics or permission of the instructor.

3 points.

x: Tu Th 4:10-5:25. A. Burgstaller.

y: Hours to be arranged. W. Lazonick. S

ECO BC 3042y. The Policy Applications of Political Economy.

Prerequisite: Intermediate Microeconomic Theory.

3 points. Not offered in 1990-91. S

ECO BC 3044y. U.S. Industrial Policy.

Prerequisite: Intermediate Micro- or Macroeconomic Theory.

3 points. Not offered in 1990-91. S

ECO BC 3051y. Law and Economics

Economic analysis of the law (U.S.). Constitutional law, property law, contracts, torts, corporation law. Economic rationale for existing legal rules, and economic forces changing legal rules.—C. Grandy.

Prerequisites: Intermediate Microeconomic Theory (ECO BC3035) or the equivalent.

3 points. Tu Th 2:40-3:55.

ECO BC 3061x, ECO BC 3062y. Senior Research Seminar.

Discussions and conferences on the researching and writing of the senior essay.—Staff.

Prerequisites: BC 3033, BC 3035, BC 3041, BC 2411 or W 1111, BC 3018 or BC 2412, and 2 electives which require an Intermediate Micro- or Macroeconomic Theory course as a prerequisite, or BC 3033, BC 3035, BC 3041, an upper-level Political Science course, and 3 electives which require an Intermediate Micro- or Macroeconomic Theory course as a prerequisite. See department for application forms.

4 points. Hours to be arranged.

ECO BC 3063x. Seminar: Topics in Economic Theory.

A seminar on a topic in economic theory of the instructor's choice.—Instructor to be announced.

Prerequisite: Intermediate Micro- or Macroeconomic Theory and permission of the instructor.

4 points. Not offered in 1990-91. S

ECO BC 3064y. Seminar: Topics in Economic Policy.

A seminar on a topic in economic policy of the instructor's choice.—Instructor to be announced.

Prerequisites: Intermediate Micro- or Macroeconomic Theory and permission of the instructor.

4 points. W 4:10-6:00. S

ECO BC 3065x. Seminar in Business Organization.

A seminar in the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies.—W. Lazonick.

Prerequisites: Intermediate Microeconomic Theory and permission of the instructor.

4 points. Th 2:10-4:00. S

ECO BC 3099x, ECO BC 3099y. Independent Study.

Staff.

Points to be arranged.

Hours to be arranged.

ECO W 4258y. Worker Management.

Prerequisite: Intermediate Micro- or Macroeconomic Theory or permission of the instructor.

3 points. Not offered in 1990-91. S

ECO W 4430y. Marxist Economic Theory.

Prerequisite: An introductory economics course or a previous course on Marx or permission of the instructor.

3 points. Not offered in 1990-91. S

ECO W 4431y. Advanced Topics on Marxist Economics.

Prerequisite: W 4430 or the equivalent, or permission of the instructor.

3 points. Not offered in 1990-91.

Economics

ECO W 4524x. Economic Organization of Eastern Europe.

Organization and performance of Soviet-type economics; pressure for change; comparison of reforms in Yugoslavia, Eastern Europe and the Soviet Union.—D. Milenkovitch.

Prerequisite: Intermediate Micro- or Macroeconomic Theory or permission of the instructor.

3 points. M W 2:40-3:55. S

ECO W 4435y. Economics of Socialism.

The theory and historical experience of socialism. Marx's theory of socialism, theories of socialist growth, planning, decentralization and worker control. Criticisms of socialism including principal-agent problems and property rights issues. Case studies drawn from the Soviet Union, China, Cuba, Hungary and Yugoslavia. Readings will include works of Marx, Dobb, Sen, Lange, von Mises, Hayek, Leontief, Horvat, and Kornai.—D. Milenkovitch.

Prerequisite: Intermediate microeconomic theory or permission of the instructor.

3 points. M W 2:40-3:55. S

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.

ECO W 3022y. Economics of Finance.

R. Caballero.

Prerequisites: calculus, statistics, and intermediate microeconomics.

3 points. M W 4:10-5:25. S

ECO W 3173x. Seminar in Economic Development.

S. Wellisz.

Prerequisite: W 3211, W 3213 and W 3321 and permission of the instructor.

4 points. Tu 6:10-8:00.

ECO W 3228x. The Urban Economy.

B. O'Flaherty.

Prerequisite: W 3211.

3 points. Tu Th 11:00-12:15. S

ECO W 3251x. Industrial Organization.

Prerequisites: W 1105 and W3211.

3 points. M W 11:00-12:15. S. Sklivas. S

ECO W 3261x, ECO W 3261y. Introduction to Accounting and Finance.

4 points.

Sec. 1 M W 7:10-9:00. K. Morgan.

Sec. 2 Tu Th 12:10-2:00. L. Schier.

(Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.)

ECO W 3321y. Economic Development.

S. Wellisz.

Prerequisite: Economics W 1105 or the equivalent.

3 points. M W 6:10-7:25. S

ECO W 3411x. Labor Economics.

S. Glied.

Prerequisite: W 3211.

3 points. Tu Th 9:10-10:25. S

ECO W 3412y. Econometrics.

A.Zaman.

Prerequisites: Statistics W 1111 or the equivalent. Mathematics V 1111, V 1112 and W 3211 or W 3213.

3 points. M W 1:10-2:25. S

ECO W 3414x. Introduction to Mathematical Economics.

R. Ericson.

Prerequisites: Mathematics V 1111-V 1112 or the equivalent with the instructor's permission, and W 3211.

3 points. Tu Th 9:10-10:25. S

ECO W 3415x. Game Theory.

Instructor to be announced.

Prerequisite: Permission of the instructor.

3 points. Not offered in 1990-91. S

ECO W 3711x. Monetary Economics and Policy.

P. Mosser.

Prerequisite: W 3213.

3 points. Tu Th 1:10-2:25. S

ECO W 3713y. Seminar in Monetary Theory and Policy.

P. Cagan.

Prerequisite: W 3213 and permission of the instructor.

4 points. M 4:10-6:00. S

ECO W 3863y. Public Economics.

Instructor to be announced.

Prerequisite: W 3211.

3 points. Tu Th 9:10-10:25. S

Economics

ECO W 3703x. Seminar in International Economics.

Instructor to be announced.

Prerequisite: W 3904 or W 3905 and permission of the instructor.

4 points. Not offered in 1990-91. S

ECO W 3904y. International Trade.

E. Zupnick.

Prerequisite: W 3211.

3 points. M W 9:10-10:25. S

ECO W 3905y. International Monetary Theory and Policy.

M. Gavin.

Prerequisite: W 3213.

3 points. Tu Th 6:10-7:25. S

ECO W 3906x. Seminar in International Trade.

Prerequisite: W 3904 or W 3905 and permission of the instructor.

4 points. Tu 4:10-6:00. G. Chichilnisky. S

ECO W 3907y. Seminar in International Monetary Theory and Policy.

A. Tornell.

Prerequisite: W 3904 or W 3905 and permission of the instructor.

4 points. Not offered in 1990-91. S

ECO W 3913x. Seminar in Macroeconomic Theory.

E. Phelps.

Prerequisite: W 3213.

4 points. Th 4:10-6:00. S

ECO W 3915y. Seminar in Game Theory.

Instructor to be announced.

4 points. M 9:10-10:50. S

ECO W 3951y. Seminar in Industrial Organization.

Prerequisite: W 3251.

4 points. Th 2:10-4:00. D. Dewey. S

ECO W 4311x. Economic History of the United States.

Prerequisite: W 3211 or the equivalent.

3 points. Not offered in 1990-91. S

ECO G 4313x. Economic History of Europe.

M. Edelstein.

Prerequisite: W 3211 or the equivalent.

3 points. Th 4:10-6:00. S

ECO G 4324x. Economic History of Japan.

Prerequisite: W 1105 or the equivalent.

3 points. Not offered in 1990-91. S

ECO G 4325y. Economic Organization and Development of Japan.

H. Patrick.

Prerequisites: W 1105 or the equivalent and permission of the instructor.

3 points. Tu 4:10-6:00. S

ECO G 4337x. Economic Organization and Development of the Middle East.

V. Nowshirvani.

Prerequisite: W 1105 or the equivalent.

3 points. M 4:10-6:00. S

ECO W 4410x. Mathematical Methods for Economics.

S. Elmes.

Prerequisites: Elementary calculus and permission of the instructor.

3 points. M 2:10-4:00.

(Primarily for graduate students in the Department of Economics at Columbia; open to all others only with the instructor's permission.)

ECO W 4450y. The Economics of Natural Resources.

Prerequisites: W3211 or the equivalent, and one year of calculus.

3 points. Not offered in 1990-91. S

ECO G 4523x. Economic Organization and Development of the Soviet Union.

R. Ericson.

Prerequisite: Permission of the instructor.

3 points. Tu 2:10-4:00.

ECO G 4526x. Current Economic Problems of the USSR.

P. Desai.

Prerequisite: permission of the instructor.

3 points. M 4:10-6:00.

ECO G 4527y. Economic Organization and Development of China.

Prerequisite: W 1105 or the equivalent.—C. Riskin.

3 points. M 4:10-6:00. S

RELATED COURSES

Courses listed under this heading may be taken without previous study of economics. They do not carry credit toward the major or minor degree in economics.

Economics

FRE BC 1307y. Advanced French: Commercial-Economic French.

L. Borgomano.

Prerequisite: Satisfaction of the language requirement or permission of the instructor, FRE BC 1306 recommended.

3 points. Hours to be arranged.



Education

Office: 336B Milbank

Telephone: 854-2117, 5408, 7072

Senior Lecturer

Susan Riemer Sacks (Program Director)

Instructor

Michele Puma

Senior Associate

Katherine Knight Wilcox

This program is supervised by the Committee on Education:

Professor of English

Remington Patterson

Professor of Spanish

Mirella Servodidio

Professor of Psychology

Peter Balsam

Associate Dean of Columbia College

Kathryn Yatrakis

Dean of Students, School of General Studies

David Lelyveld

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Courses counted toward a major may not be double-counted for the minor.

Interested students should consult with the Education Program faculty in 336 Milbank, and obtain an information packet and application, along with the Admissions Policy. Enrollment for student teaching is limited. Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year, and no later than the fall term of the junior year. See Admissions Policy.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the National Teachers Exam as part of the certification process. Some modifications in internships and student teaching will be effective September 1, 1993, to meet new New York State regulations.

Elementary School Program

This track leads to the New York State Provisional Common Branch Certificate (N-6). Students participating in the elementary program must complete the following course of study:

One Psychology course, chosen from among:

Psychology BC 1105

Psychology of Learning

Psychology BC 1127 or BC 1129

Developmental Psychology

Psychology BC 1130 or BC 1132

Human Memory and Learning

Psychology BC 2134

Educational Psychology

One Foundations course, chosen from among:

Philosophy V 3758

Philosophy of Education

Education

Sociology V 3225
Education BC 2032
History BC 3461

Sociology of Education
Contemporary Issues in Education
Education in American History

A third course from either of the above categories, and one methods course:
Education BC 2052 *Seminar in Methods of Elementary School Teaching*

During the Spring Term of their junior year, all students entering the elementary education program take Education BC 2052, which involves a classroom internship one morning per week. BC 2052 is a prerequisite to elementary student teaching.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete the following course of study:

One Psychology course, chosen from Psychology BC 1105, BC 1127 or BC 1129, BC 1130 or BC 1132, or BC 2134; and

One Foundations course, chosen from Philosophy V 3758, Sociology V 3225, Education BC 2032, or History BC 3461; and

One methods course:

Education BC 2062 *Seminar in Secondary School Curriculum Development*

All students entering the secondary education program take this methods course which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages, and which includes a classroom internship one morning per week. Education BC 2062 is a prerequisite to secondary student teaching.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses:

Education BC 3063 *Teaching in the Elementary or Secondary Schools*

Education BC 3064 *Seminar in the Teaching-Learning Process*

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064 is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn Term, or Education BC 3063y and BC 3064y in the Spring Term. It is strongly advised that no more than two other courses be taken in addition to student teaching and the seminar. No student with incompletes may student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g. Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

Education

REQUIREMENTS FOR THE MINOR

The minor requires a minimum of 5 courses: Education BC 3063, Education BC 3064, one Methods course, and two others from those courses cited above, but not counted toward the major.

COURSES OF INSTRUCTION

EDU BC 2032y. Contemporary Issues in Education.

Study of controversial topics confronting education today and the relation to contemporary society. Equity in learning experiences for girls and boys, the disabled, bilingual and gifted students will be examined. The impact of computers, technology, and values teaching on schooling will be addressed. Observation in classroom required.—S. Sacks.

Prerequisite: Permission of the instructor.
4 points. M 2:10-4:00.

EDU BC 2052y. Seminar in Methods of Elementary School Teaching.

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. Students serve an internship one morning a week in elementary classrooms.—K. Wilcox.

This course should be taken in the Spring Term of the junior year. It is a prerequisite to student teaching in the elementary grades. Open to Education program applicants and others with permission of instructor.
4 points. W 2:30-4:30.

EDU BC 2062y. Seminar in Secondary School Curriculum Development.

Theory and practice of developing secondary school curricula through classroom observations and participation in weekly seminars. Emphasis on analysis of pedagogical strategies appropriate to specific disciplines. Students serve an internship one morning a week in a secondary classroom.—M. Puma.

This course should be taken in the Spring Term of the junior year. Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and others with permission of the instructor.
4 points. W 2:30-4:30.

EDU BC 3063x, y. Teaching in the Elementary or Secondary Schools.

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelation between process,

content, and values in the educational experience. Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year.—Staff.

Prerequisite: Admission to Education Program.

Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited to 28.

4 points. Hours to be arranged.

EDU BC 3064x, y. Seminar in the Teaching-Learning Process.

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning supervision, conferences, and video-taping. Seminar sessions include discussion of drug, alcohol, and child abuses.—M. Puma.

Prerequisite: Admission to Education Program.

Corequisite: BC 3063. Enrollment limited to 28.

4 points. M 2:10-4:00.

History HIS BC 3461y. Education in American History.

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility.—N. Woloch.

Prerequisite: Permission of the instructor.
4 points. Tu 2:10-4:00.

Philosophy PHI V 3758x. Philosophy of Education.

Philosophical reflections suggested by the analysis of particularly difficult pedagogical problems, as e.g., those that arise in teaching autistic children or in dealing with groups from different ethnic and cultural backgrounds. Drawing on classical and contemporary authors, discussion will focus on the question of the conditions requisite for producing free and responsible individuals. Readings from Plato, Augustine, Rousseau, Emerson, Dewey and others.—R. Myers.

Not open to freshmen.
3 points. Tu Th 1:10-2:25.

Sociology Soc V 3225y. Sociology of Education.
Social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling.—H. Zuckerman.
3 points. Tu Th 1:10-2:25.

COOPERATING TEACHER PARTICIPANTS FOR 1989-90

Bank Street Family Center

Barbara Able
Amy Flynn
Leanne Mills

P.S. 75

Carlos Alvelo
Teresa Sandford
Marsha Silver

P.S. 84

Maria Barcelo
Ann Chase
Janet Foster
Susan Knaster
Brigette Skeados

P.S. 87

Scott Hirschfeld
Paula Karasik
Linda Schwartz
Melisande Schwartzfarb

Columbus Academy Public School

Esther Forrest
Jo Lesser
Rena Schklowsky

Hunter High School

Social Studies:
Janet Baer
Sue Eichler
Anna Morello

John F. Kennedy High School

Mathematics:
James Purnell

Social Studies:
Al Cohen
Richard Levine
Judy Scott
Marilyn Taheri

Spanish:
Silvia Barredo
Dora Villani

LaGuardia High School

English:
Beverly Kurtz
Arlyne Tessler

English

Office: 417 Barnard Hall

Telephone: 854-2116

Professors

Mary Gordon (Millicent C. McIntosh Professor), Maire Jaanus¹, Ruth M. Kivette, Joann Ryan Morse, Robert G. O'Meally¹, Remington Patterson, Anne Lake Prescott (Chair)

Adjunct Professors

Paul Berman (Theatre), Ann Birstein, Marjorie Housepian Dobkin

Associate Professors

James Basker², Elizabeth Dalton³ (Writing), Celeste Schenck²

Adjunct Associate Professors

Frank Brady, Nahid Rachlin

Assistant Professors

Christopher Baswell, Brenda Gross, Kathryn Humphreys², Nancy Piore, Cary Plotkin (Director of First Year English and Major Advising), Erik Ryding, Aaron Schneider, William Sharpe³, Timea Szell

Adjunct Assistant Professors

Dare Clubb, John Pagano, Katha Pollitt, Elizabeth Swain

Associate

Quandra Prettyman

Lecturers

Constance Brown, Patricia Denison, Margaret Ellsberg, Anita Soloway

Instructors

Linda Ainsworth, Constance Colby, Eileen Kelley-Beauregard, James Runsdorf, Heather Stanford, Wendy Steiner

Assistant

Constance Budelis

¹Absent on leave 1990-91

²Absent on leave Autumn Term

³Absent on leave Spring Term

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of texts that enrich our culture.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in literature by electing appropriate courses listed under LANGUAGE AND LITERATURE.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least ten courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*); for possible substitutions see BC 3159, below.
2. In addition, she will elect five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. At least two of these must be in literature before 1900 (BC 3141, BC 3154-BC 3179). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). For *one* of these seminars, a qualified senior major may request permission to

English

substitute a Special Project in Writing, Speech, or Theatre (see BC 3996x, BC 3996y) or Independent Study (see BC 3999x, BC 3999y).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: BC 3154 or BC 3155, *Chaucer*, or BC 3163 or BC 3164, *Shakespeare*, or BC 3167, *Milton*, two additional courses in literature before 1900 (BC 3141 and BC 3154-BC3179); and two electives.

AMERICAN LITERATURE

Beginning in 1991-92, the department will offer a concentration in American literature. In addition to ENG BC 3159, 3160 (or appropriate substitutions) and 3193, an American concentration consists of 3179, either 3180 or 3182, one other American literature course, and one senior seminar in American literature. (The department requires two senior seminars for the major.) Of the remaining electives, one must be in English literature before 1900. Those wishing to concentrate in American literature should consult Professor O'Meally.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y. Studies in Language and Literature.

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor.—Director and Staff.

Prescribed for all first year students. May not be taken for pass/fail.

3 points. Consult Department bulletin board for section times.

ENG BC 1202x, y. Special Studies in Writing.

For students who want additional work in writing. Class workshops, individual assignments, weekly conferences. Section I (Autumn Term): primarily for students whose first language is not English.—C. Colby.

Permission of the instructor required. May only be taken for pass/fail.

3 points. x: Sec. 1 M W 10:00-10:50.

Sec. 2 M W 12:00-12:50.

y: Sec. 1 M W 10:00-10:50.

WRITING

Registration in each course is limited and the written permission of the instructor is required; please file signed departmental registration blanks with Mrs. Budelis (417 Barnard Hall). Two writing courses may not be taken concurrently. A writing concentration consists of at least two writing courses, ENG BC 3996 or 3999, and (*in addition* to the 10 courses in the major) Arts BC 3031. Those wishing to concentrate in writing should consult Professor Dalton.

ENG BC 3103x, ENG BC 3104y. Exposition. Sections I and II (Autumn and Spring Terms): English composition above the first year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Section III (Spring Term): Journalism and popular writing; methods of news writing and news judgment.

3 points.

x: Sec. 1 M 2:10-4:00. M. Ellsberg.

Sec. 2 W 12:00-1:50. J. Runsdorf.

y: Sec. 1 M 2:10-4:00. Q. Prettyman.

Sec. 2 W 12:00-1:50. E. Ryding.

Sec. 3 W 4:10-6:00. F. Brady.

ENG BC 3105x, BC 3106y. Fiction and Non-Fiction.

Short stories and personal narrative.

Prerequisite: Demonstration of some creative writing ability.

3 points. x: Th 4:10-6:00. M. Dobkin.

y: W 2:10-4:00. T. Szell.

ENG BC 3107x, BC 3108y. Experiments in Writing.

Work in various styles and forms of fiction.

3 points.

x: Tu 2:10-4:00. A. Birstein.

y: Sec. 1 Tu 2:10-4:00. A. Birstein.

Sec. 2 Th 4:10-6:00. N. Rachlin.

ENG BC 3110y. Poetry Writing.

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques. —K. Pollitt.

3 points. M 2:10-4:00.

English

ENG BC 3111x, 3112y. Story Writing.

Advanced work in writing, with emphasis on the short story.—M. Gordon.

Prerequisite: Some experience in the writing of fiction.

3 points. Tu 4:10-6:00. Conference hours to be arranged.

ENG BC 3113x, 3114y. Dramatic Writing.

Studies in playwriting: reading, analysis, and practice.—D. Clubb.

3 points. x: W 4:10-6:00. y: Tu 12:00-1:50.

SPEECH

Registration in each course is limited and permission of the instructor required.

ENG BC 3121y. The Uses of Speech.

Effective formal and informal communication; interviews, group discussions, panels, and public speeches, self-presentation, delivery, organization of materials, audience psychology, nonverbal and interpersonal communication.—B. Gross.

3 points. Tu Th 1:10-2:25. Conferences with the instructor to be arranged.

ENG BC 3124x. Oral Interpretation of Literature.

Study of literary texts for oral performance. Fictive prose and poetry; reading modes from informal presentation to readers' theatre.—B. Gross.

3 points. W 4:10-6:00.

ENG BC 3127x. Public Speaking: Language and Politics.

Study of basic principles of formal speaking, with emphasis on effective strategies for political speakers.—B. Gross.

3 points. Tu Th 1:10-2:25.

ENG BC 3128y. Persuasion.

Theory, practice, and analysis of persuasive speaking; the use of evidence, opinion, logic, and audience motivation to change beliefs, attitudes, and behavior.—B. Gross.

3 points. Not offered in 1990-91.

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 230 Milbank Hall. English majors interested in a Theatre concentration should consult Professor Berman or Swain.

ETR BC 3131y. History of Theatre: The Greeks to Shakespeare.

Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Renaissance to the Restoration Period in England and France.

—P. Berman, E. Swain

Enrollment limited to 40 students. 3 points. Tu Th 2:40-3:55. H

ETR BC 3132y. History of Theatre: Shakespeare to the 19th Century.

Study of theatre literature and practice from the Elizabethan period to the 19th century. Focus on Shakespeare and Spanish and French drama of the period.—P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Not offered in 1990-91. H

ETR BC 3133x. History of Theatre: Modern Period.

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavski, Meyerhold, Artaud, Brecht, Grotowski, and Brook, the innovations of Craig, Appia, and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw, and other playwrights up to modern times.—P. Berman, E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55. H

ETR BC 3134y. Special Seminar in Contemporary British Political Theatre.

An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakov, Keeffe, and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre.—E. Swain

Prerequisite: One semester of theatre history or permission of the instructor.

3 points. Not offered in 1990-91. H

LANGUAGE AND LITERATURE

ENG BC 3140x, y. Seminars on Special Themes.

Registration may be limited

3 points.

BC 3140x 2. Explorations of Black Literature: The Harlem Renaissance.

Novelists and poets associated with the “New Negro” movement of the ’20s. Writers include lesser-known women poets as well as McKay, Cullen, and Hughes; novelists such as Johnson, Larsen, Fauset, Toomer, McKay, Thurman, and Hurston.—Q. Prettyman.
Tu Th 2:40-3:55. H

15. American Jewish Writers.

Readings in American Jewish writers from the turn of the century to the present, including Cahan, Yeziarska, Henry Roth, Philip Roth, Malamud, Bellow, and Ozick. Some attention to film and to European Jewish literature.—A. Soloway.
Tu Th 4:10-5:25. H

BC 3140y. 5. Fable and Fantasy.

Selected works by 19th- and 20th-century authors. Lewis Carroll, Ursula LeGuin, C. S. Lewis, and others. Their use of religious and philosophical fable, nonsense, and paradox; their creation of other worlds.—A. Prescott.
M W 1:10-2:25. H

16. Death in Modern Fiction.

An exploration of the different ways death is treated in modern fiction. Topics to be discussed are: suicide, aging and death, death and faith, violent death, death and sex. Writers studied will include Ford, Woolf, Wharton, Cather, Faulkner, Olsen, Trevor, Stone. —M. Gordon.
Tu Th 1:10-2:55. H

ENG BC 3141x, BC 3142y. Major English Texts.

A chronological view of the variety of English literature through study of selected writers and their works. Autumn: Beowulf through Dryden. Spring: Swift to present.—M. Ellsberg. Guest lectures by members of the department.
3 points. M W 11:00-12:15. H

English-Women’s Studies EWS BC 3144y. Minority Women Writers in the United States.

Literature of 20th-century minority women writers in the United States, with emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework.—Q. Prettyman.
Permission of the instructor.
3 points. Tu Th 2:40-3:55. H

ENG BC 3154x. The Early Chaucer.

Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules, with emphasis on *Troilus and Criseyde*; related texts by other writers.—C. Baswell.
3 points. Not offered in 1990-91. H

ENG BC 3155y. Chaucer.

The Canterbury Tales.—C. Baswell.
3 points. Tu Th 10:35-11:50. H

ENG BC 3158x. Medieval Literature.

English and Continental literary works from the 4th to the 15th century, studied in the original or in translation.—T. Szell.
3 points. Tu Th 10:35-11:50. H

ENG BC 3159x-3160y. The English Colloquium.

Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.
Required of majors in the junior year. Any student who wishes may substitute 3 courses, BC 3141, 3165 (or W 4101) to BC 3174x (or W 4301). One of these may also count as a pre-1900 distribution requirement.
4 points.

1. Imitation and Creation.

New ideas of the mind’s relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.—J. Morse.
M 2:10-4:00.

3. Skepticism and Affirmation.

Humanism, reformation, and revolution; the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation.
W 2:10-4:00. x: R. Patterson. y: C. Plotkin.

6. System and Subversion.

How writers of the Renaissance and Enlightenment reinforce or challenge intellectual, political, and socio-sexual systems; the question of authority; reason and faith; order and revolution.—E. Ryding.
Tu 2:10-4:00.

ENG BC 3163x, 3164y. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.
3 points. M W 11:00-12:15. H

English

ENG BC 3165x. The Elizabethan Renaissance.

Literature in the age of Elizabeth I. Sidney, Spenser, Shakespeare, and their contemporaries. Songs, the love sonnet, prose fiction, satire. Some attention to music and visual imagery.—E. Ryding.

3 points. *M W 1:10-2:25.* H

ENG BC 3166x. Seventeenth-Century Prose and Poetry.

Classical traditions, Christian beliefs, the new science, and the literary imagination: thought and style in English literature from Bacon, Donne, and Jonson to Milton, Marvell, and Bunyan.—R. Kivette.

3 points. *Not offered in 1990-91.* H

ENG BC 3167y. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose.—R. Kivette.

3 points. *Tu Th 9:10-10:25.* H

ENG BC 3169y. English Drama: 900-1642.

English drama from its beginnings to the closing of the theatres. Medieval plays, the Tudor interlude, the major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster.—R. Patterson.

3 points. *M W 2:40-3:55.* H

ENG BC 3171y. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Austen, Brontë, Dickens, and George Eliot.—J. Morse.

3 points. *Tu Th 10:35-11:50.* H

ENG BC 3173x. Eighteenth-Century Literature, 1660-1740.

Tradition and innovation in satire, drama, the periodical essay, and the novel; readings in Dryden, Rochester, Behn, Pope, Swift, Defoe, Bunyan, Richardson, Fielding, and Gay.—J. Basker.

3 points. *Not offered in 1990-91.* H

Interested students are urged to take ENG W 4301y: English Literature of the Eighteenth Century.—J. Basker. *M W 9:10-10:25.*

ENG BC 3174x. Eighteenth-Century Literature, 1740-1800.

Tradition and innovation in a variety of forms, including works by Johnson, Boswell,

Goldsmith, Sheridan, Fielding, Sterne, Wollstonecraft, Burns, and Blake.—J. Basker.

3 points. *Not offered in 1990-91.* H

ENG BC 3176x. English Romanticism.

Two generations of Romantic writers in their intellectual context, with reference to contemporary movements in philosophy, music, and the plastic arts.—C. Plotkin.

3 points. *M W 1:10-2:25.* H

ENG BC 3177x. The Victorian Age in Literature.

Prose and verse on problems of society and religion. Carlyle, Mill, Ruskin, Arnold, Newman, Huxley, Tennyson, Browning.—W. Sharpe.

3 points. *Not offered in 1990-91.* H

ENG BC 3178x. Victorian Poetry and Criticism.

Emphasis on the role of poets and artists in modern society. Poems by Tennyson, Arnold, Christina and D. G. Rossetti, Swinburne, and Robert and E. B. Browning; criticism by Ruskin, Arnold, and Wilde. Special attention to Pre-Raphaelitism, Whistler, and early photography.—W. Sharpe.

3 points. *Tu Th 1:10-2:25.* H

ENG BC 3179x. American Literature before 1865.

The formation and development of American literary traditions. Writers include: Bradstreet, Edwards, Irving, Sedgwick, Emerson, Thoreau, Poe, Hawthorne, Melville, Stowe.—K. Humphreys.

3 points. *Not offered in 1990-91.* H

ENG BC 3180y. American Literature, 1865-1914.

Realism, naturalism, and the beginnings of modernism in American literature. Writers include Twain, Howells, James, Dreiser, Wharton.—K. Humphreys.

3 points. *Tu Th 1:10-2:25.* H

ENG BC 3181x. American Fiction.

American fiction of the 19th- and 20th-centuries. Works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, and others.

3 points. *Not offered in 1990-91.* H

English

ENG BC 3182y. American Literature, 1914 to the Present.

Modernism and post-modernism in American literature. Writers include Fitzgerald, Malamud, Morrison and others.—M. Ellsberg.

3 points. *M W 2:40-3:55.* *H*

ENG BC 3185x. Modern British and American Poetry.

The aims, styles, and influences of the Modernist movement in poetry. Works by Yeats, Eliot, Pound, Stevens, Williams, and others.—W. Sharpe.

3 points. *Tu Th 10:35-11:50.* *H*

ENG BC 3186x. Modern Drama.

The modern theatre and its makers from Ibsen to the present.—E. Dalton.

3 points. *M W 1:10-2:25.* *H*

ENG BC 3187x. American Writers and Their Foreign Counterparts.

Selected 19th- and 20th-century American, European and English works. Flaubert, James, Proust, Gide, Faulkner, and others.—E. Dalton.

3 points. *Not offered in 1990-91.* *H*

ENG BC 3188x. The Modern Novel.

Works by Hardy, James, Conrad, Lawrence, Joyce, and others.—J. Morse.

3 points. *Tu Th 10:35-11:50.* *H*

ENG BC 3189x. Post-Modern Literature.

Writers since 1945, primarily English and American, and concepts of post-modern culture. Readings include Beckett, Borges, Pinter, Nabokov, Barthelme, and others.—E. Dalton.

3 points. *Tu Th 2:40-3:55.*

ENG BC 3191x, y. The English Conference.

Various topics presented by visiting scholars in courses that will meet for three or four weeks at the beginning of each semester. Topics, instructors, and times will be announced by the department —Visiting faculty.

To be taken only for pass/fail.

1 point.

ENG BC 3193x, y. Critical Writing.

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Required of all majors before the end of the junior year. Sophomores are encouraged to take it in the Spring Term even

before officially declaring their major. Transfer students should plan to take BC 3193 in the Autumn Term.—Staff.

Registration in each section is limited.

4 points.

x: Sec. 1 M 2:10-4:00.

2 Tu 2:10-4:00.

3 Tu 4:10-6:00.

4 W 4:10-6:00.

5 Th 4:10-6:00.

y: Sec. 1 M 4:10-6:00.

2 Tu 2:10-4:00.

3 Tu 4:10-6:00.

4 W 4:10-6:00.

5 Th 4:10-6:00.

ENG BC 3194y. Critical and Theoretical Perspectives on Literature.

1. A History of Criticism.

A primarily chronological survey of major critical texts from ancient Greece to modern times. Authors include Aristotle, Sidney, Johnson, Coleridge, Freud, Frye, Sontag, Culler.—C. Schenck.

3 points. *Tu Th 10:35-11:50.*

2. Literary Theory.

Contemporary theory and its revolutionary redefinition of certain fundamental concepts: the body, the image, the word, pleasure, love, gender, motherhood, and the unconscious.—M. Jaanus

Not offered in 1990-91.

3. Psychoanalytic Approaches to Literature.

Literary expression in the light of psychoanalytic thought; readings in Freud and other psychoanalytic writers. Shakespeare, Keats, James, Kafka, Lawrence, Dostoevsky, and others.—E. Dalton.

Not offered in 1990-91.

ENG BC 3996x, y. Special Project in Writing, Speech, or Theatre.

A senior major who has completed two courses in writing, speech, or theatre with distinction and who wishes to substitute a special project for one of the required senior seminars may request permission to register for a third course in her special field (3 points) and for BC 3996x or BC 3996y (1 point). Students wishing to concentrate in writing must take 3996 or 3999.

Registration is limited. Written permission of the instructor and of the department chairman is required.

1 point.

English

ENG BC 3997x, ENG BC 3998y. Senior Seminars: Studies in Literature.

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, discussion, oral reports, and at least one significant research paper. Written permission of the instructor required.

Enrollment limited to seniors. 4 points.

ENG BC 3997x. 4. Of Poets and Poetry.

What poets say about themselves, about one another, and about the art they practice.—R. Kivette.

W 4:10-6:00.

9. Epic and Romance.

Epic and romance, from the classical period to the 20th century, and study of their competition and mutual influence. Readings from Greek romance, Latin epic, Chaucer, Malory, Spenser, Milton, the novel, science fiction.—C. Baswell.

W 2:10-4:00.

24. Enchantment and Imagination.

The artist as magician in Romantic and Modern literature: the psychology of aesthetic and creative experience.—J. Pagano.

Th 4:10-6:00.

25. Disintegrations.

The coming-apart of structures of coherence — poetic language, the family, narrative sequence, ego or selfhood, gender, civilization, Truth — from mid-Victorian England to the 20th century.—C. Plotkin.

M 4:10-6:00.

26. Ulysses and Its Background.

A study of Joyce's comic epic and its sources: Homer, Rabelais, Shakespeare, Swift.—J. Morse.

Tu 2:10-4:00.

27. Slavery: The Woman's Experience — Black and White.

As experienced in the 19th century and as recreated by later authors. Autobiography, prose fiction, and poetry. Writers include Jacobs, Harper, Kemble, Chesnut, Chesnutt, Cable, Twain, Stowe, Mitchell, Gaines, Morrison.—Q. Prettyman.

M 2:10-4:00.

28. English Drama with Focus on Shakespeare.

Shakespeare and his later contemporaries, especially Jonson, Dekker, and Middleton, in their representation of class and gender in plays of London life.—R. Patterson.

Th 2:10-4:00.

ENG BC 3998y. 1. The Middle Ages: Medieval Heroines.

The cultural and literary construction of women, virtuous and wicked, saintly and whorish, in the chivalric and religious narrative of the High Middle Ages, in light of a variety of contemporary critical approaches.—T. Szell.

Tu 4:10-6:00.

2. The Renaissance: Gender in the Age of Shakespeare.

How Renaissance writers deal with issues of gender and sexual orientation. Emphasis on love, power, misogyny, misandry, homoeroticism.—E. Ryding.

Th 2:10-4:00.

3. The Eighteenth Century: The Eighteenth Century Novel.

Origins and development of the British novel. Topics include: historical and cultural influences, technical innovation and experimentation, the picaresque, the novel of sensibility, gothicism, recent theories of the development of the novel. Readings in Defoe, Richardson, Fielding, Sterne, Goldsmith, Mackenzie, Radcliffe, Horace Walpole, Austen.—A. Schneider.

W 2:10-4:00.

4. The King James Bible and the Literary Imagination.

The influence of biblical language and story on selected works from British and American literature.—R. Kivette.

Tu 2:10-4:00.

5. Writers on War.

Perceptions of problematic wars: glorification, protest, and despair. Focus on the Trojan War and on British writing about World War I; some attention to Vietnam.—C. Brown.

W 4:10-6:00.

6. Modern Literature: Feminist Poetics.

A study of women's writing against the backdrop of evolving feminist scholarship. The course will examine the interrelations

English

among politics, literature, literary criticism, and historical moment, describing the varieties and evaluating the limits of contemporary feminist literary theory.—C. Schenck.

Th 4:10-6:00.

7. American Literature: The Gilded Age and Beyond.

Literary fascination with the marketplace in the decades after the Civil War. Realist and Naturalist texts, with their emphasis on economics of desire and exchange, will focus our study of how money, sexuality, and language relate to each other. Authors

include Twain, James, Howells, Crane, Dreiser, Wharton, and Hurston.—K. Humphrey.

Tu 4:10-6:00.

ENG BC 3999x, y. Independent Study.

A senior major who wishes to substitute Independent Study for *one* of the two required senior seminars should consult Professor Plotkin about qualifications and requirements.

Registration is limited.

Written permission of the instructor and of the department chair is required.

4 points.



Environmental Science

Office: 334 Milbank

Telephone: 854-5120, 3589

Adjunct Assistant Professors

Richard Bopp (Chair), Carole Swick

Lecturers

Peter Bower, Eric Katz

Other officers of the University offering courses listed under Environmental Science:

Professors

W. S. Broecker, A. L. Gordon, James Simpson

Assistant Professor

P.E. Olsen

Adjunct Associate Professor

P.N. Froelich

Adjunct Assistant Professor

Anthony Del Genio

Environmental Science studies the energy and material levels and pathways of natural earth systems in order to assess the effect of exceedances of these levels caused by the inadvertent impacts of human technologic systems, such as the exposure to radioactive materials, release of toxic substances, carbon dioxide build-up, elimination of species, and despoliation of the landscape. It provides a rational scientific basis for the management of earth space and resources. Environmental Science combines the traditional sciences into a holistic view of natural systems, especially with regard to their connections to human designed systems. While dependent on the findings of the natural sciences to describe the separate pieces of environmental systems, it uncovers convergent relations that reflect coherences among the disciplines. The holism of environmental science is a thinking process that focuses on a unique dynamics of life on earth and presents this material as an organized body of knowledge.

The curriculum recognizes the need for broad and well-trained scientists to cope with the complexities of contemporary and anticipated disruptions of environmental systems. Majors must acquire a real-world understanding of hybrid built and natural systems, as well as the content and methodology of science. They will study the theoretical and applied aspects of environmental science and will be exposed to a range of current and future problems.

REQUIREMENTS FOR THE MAJOR

- I. Environmental Science BC 1001, BC 1002. Advanced courses in Environmental Science or another related science may be substituted for this requirement with permission of the chairman.
- II. At least one course in Chemistry and five other courses in the natural sciences (Biology, Chemistry, Geology or Physics). At least two of these must include labs.
- III. Four courses to be selected from the following:

Environmental Science

ENV BC 3015

ENV BC 3016

ENV BC 3019

ENV BC 3020

ENV BC 3022

ENV BC 3035

ENV BC 3039

Chemical Cycles in the Environment

Environmental Measurements

Energy and Mineral Resources

Renewable Resources

Environmental Case Studies

Environmental Hazards and Disasters

Environmental Impacts of Development

Environmental Science

Graduating seniors are required to submit a report on an environmental research project by taking Environmental Science BC 3997, 3998, or as an extension of another course.

Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

REQUIREMENTS FOR THE MINOR

Five courses are required:

Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

COURSES OF INSTRUCTION

ENV BC 1001x, ENV BC 1002y. Environmental Science.

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban life-styles on planetary and regional equilibria.

Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. Spring Term: ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future.—R. Bopp and P. Bower.

Prerequisites: Passing grade on Quantitative Reasoning test or equivalent. Enrollment limited. Students must sign up for lab sections in 331 Milbank during the program planning period of the previous term. Laboratory fee \$15.

4½ points.

Lecture M W 11:00-12:15.

Laboratory: One session of 3 hours per week to be arranged.

ENV BC 3015y. Chemical Cycles in the Environment.

A detailed study of the cycles of chemical species in the environment including carbon, nitrogen, phosphorus and sulfur compounds, major cations, trace metals, and organic pollutants. Emphasis will be placed on human-induced perturbations of natural cycles.—R. Bopp.

Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor.

Alternate years.

3 points. Not offered in 1990-91.

ENV BC 3016x. Environmental Measurements.

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods.—R. Bopp.

Prerequisites: Chemistry BC 1601, or equivalent and permission of the instructor. Enrollment limited to 16 students. Alternate years.

3 points. W 4:10-6:00. Laboratory: 2 hours per week, M or W.

ENV BC 3019y. Energy and Mineral Resources.

A scientific description and evaluation of the current status and future of our energy and mineral resources including methods of treating wastes generated during resource production and use.—P. Bower.

Prerequisites: One year college science and permission of the instructor.

Alternate years.

3 points. Tu Th 9:10-10:25.

ENV BC 3020y. Renewable Resources.

A scientific consideration of water and soil resources including the hydrologic cycle, surface and groundwater flow, and soil genesis, classification and conservation. Agricultural systems and forestry and fisheries resources will also be analyzed.—R. Bopp.

Prerequisites: One year of college science and permission of the instructor.

Alternate years.

3 points. Not offered in 1990-91.

Environmental Science

ENV BC 3022x. Environmental Case Studies.

Investigation of the scientific aspects of particular cases that illustrate major environmental problems. Legal and social implications will also be explored. Included will be such topics as ocean dumping of sewage sludge, eutrophication of Lake Erie, acidification of German forests and PCB contamination of the Hudson River.—R. Bopp.

Prerequisite: Environmental Science BC 1001, BC 1002, or equivalent, or permission of the instructor.

Alternate years.

3 points. Not offered in 1990-91.

ENV BC 3035x. Environmental Hazards and Disasters.

Prediction and avoidance of catastrophic events that originate in natural systems and technologic systems; risk assessment, response strategies to minimize damage before, during and after events such as earthquakes, floods, nuclear breakdowns.—P. Bower.

Alternate years.

3 points. Tu Th 9:10-10:25.

ENV BC 3039y. Environmental Impacts of Development.

Actual projects will be studied to determine environmental impacts and mitigation measures. The class will visit sites and review maps, drawings, aerial photos, environmental impact statements and community plans. Legal and economic implications and impacts on air and water quality and on architectural, aesthetic and natural resources will be considered.—C. Swick.

Limited enrollment. Permission of the instructor required.

3 points. W 4:10-6:00; plus field trips (2 hours per week to be arranged).

Environmental Science—Philosophy ESP BC 3025y. Ethics and Environment.

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law.—E. Katz.

3 points. Th 2:40-5:10.

H

ENV BC 3997x, 3998y. Senior Essay.

Research under the supervision of a faculty member for the purpose of preparing the senior thesis. The thesis may be completed in a single semester or over both semesters of the senior year.—Staff.

Variable points with a maximum total of four. Hours to be arranged.

ENV BC 3999x, ENV BC 3999y. Problems and Projects in Environmental Science.

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty.—Staff.

Permission of chairman required.

Variable points. Hours to be arranged.

The following courses offered by the Geological Sciences Department of Columbia are of special interest to students of Environmental Science. Students should consult the Columbia College Bulletin for course descriptions.

GEY W 3001x. Time in the Earth Sciences.

P.E. Olsen.

3 points.

GEY V 3002x. The Design and Maintenance of a Habitable Planet.

W. S. Broecker.

3 points.

GEY V 3003y. The Earth's Climate.

A. L. Gordon.

3 points.

GEY W 4008x. Introduction to Atmospheric Science.

A. Del Genio.

3 points.

GEY W 4884y. Organic Geochemistry.

R. Bopp.

3 points.

GEY W 4926y. Principles of Chemical Oceanography.

P. N. Froelich and H.J. Simpson.

3 points.

First-Year Seminar Program

Program Office: 216 Milbank Hall

Telephone: 854-2852

This program is supervised by the First-Year Seminar Committee:

Professor of Russian

Marina Astman

Professor of Political Science

Dennis Dalton

Professor of Philosophy

Sue Larson

Assistant Professor of Economics

Cecilia Conrad

Professor of Classics

Helene P. Foley (Director)

Instruction in the First-Year Seminar Program is provided by the following regular members of the Barnard College Faculty:

Professors

Marina Astman (Russian), Lila Braine (Psychology), Dennis Dalton (Political Science), Hubert Doris (Music), Helene Foley (Classics), Serge Gavronsky (French), Renée Geen (French), Peter Juviler (Political Science), Ruth Kivette (English), Morton Klass (Anthropology), William Lazonick (Economics), Lydia Lenaghan (Classics), Alfred MacAdam (Spanish), Joseph Malone (Linguistics), Robert A. McCaughey (History), John Meskill (Oriental Studies), Mary Mothersill (Philosophy), Robert O'Meally (English), Richard Pious (Political Science), Teresa Rogers (Adjunct, Sociology), Alan Segal (Religion), Mirella Servodidio (Spanish), Marcia Welles (Spanish)

Associate Professors

James Basker (English), André Burgstaller (Economics), William McNeil (History)

Assistant Professors

Beth Bailey (History), Christopher Baswell (English), Irene Bloom (Oriental Studies), Mark Carnes (History), Jonathan Crary (Art History), Celia Deutsch (Religion), Ellen Graff (Dance), Christopher Grandy (Economics), Brenda Gross (English), Kathryn Humphreys (English), Sheila McTighe (Art History), Perry Mehrling (Economics), Catharine Nepomnyaschy (Russian), Molly Nesbit (Art History), Vivian-Lee Nyitray (Religion), Alicia Ramos (Spanish), Celeste Schenck (English), Herbert Sloan (History), Timea Szell (English), Robert Tragesser (Philosophy), John Vitkus (Psychology)

Lecturers, Associates and Instructors

James Crapotta (Spanish), Dorothy Denberg (First-Year Dean), Temma Kaplan (Center for Research on Women), Nancy Piore (English), Agueda Rayo (Spanish), Judith Russell (Political Science), Susan Sacks (Education), Marvin Shulman (German)

Purpose and Structure

Every Barnard first year student is required to take a First-Year Seminar during her first or second semester at Barnard. The purposes of the First-Year Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well — this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through an examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen

First-Year Seminar Program

to participate in the program. As such, First-year Seminars should provide entering Barnard students with an early and positive additional measure of institutional identity.

Accordingly, all First-Year Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods.
- Each will have its enrollment limited to twenty or fewer students.
- Reading assignments will consist of a *maximum* of six book-length assignments or their equivalent (about 2000 pages).
- Writing assignments will consist of a *minimum* of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.
- The regular grading practices of the College will be followed. Upon completion of the course, students will have an opportunity to evaluate their First-Year Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The First-Year Seminar Program consists of thirty seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting First-year Seminars are described in First-year Registration materials.)

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of ancient and modern literature.

FSM BC 1112y. The Ends of Times: Apocalypse in Western Thought.

Judeo-Christian thought on the subject of time obsessively looks forward to its transformation and end. Apocalypse implies both this end, and the uncovering or restoration of truth and proper order which will precede it. The seminar will consider these themes in major western texts, paintings, and films, to include:

St. Augustine, *Daniel, Revelation*
Joachim of Floris, *Tales of King Arthur*
Shakespeare, *The Tempest*
Rousseau, Tennyson, Wordsworth, Marx, Freud, Yeats, and Joyce.
Christopher Baswell, English Department
Spring, Tu Th 9:10-10:25.

FSM BC 1115y. Literature and the Unspeakable.

A study of the texts that dramatize the writer's struggle to meet a fundamental and abiding problem of literary art: how to capture in language the extremes as well as the subtleties of experience; how to translate images and intuitions into words; how to express that which can seem inexpressible. Readings include:

Sophocles, *Oedipus Rex*
Selected books of the Bible
William Shakespeare, *Merchant of Venice*
Emily Brontë, *Wuthering Heights*
Mark Twain, *Huckleberry Finn*
T.S. Eliot, *The Wasteland*
Virginia Woolf, *Mrs. Dalloway*
Selected poems by Pope, Wordsworth, Coleridge, Yeats, Stevens, with short readings in Nietzsche and Freud
Male and Female Slave Narratives
James Basker, English Department
Spring, M W 1:10-2:25.

FSM BC 1116x. Women and the Fantastic in Literature.

An examination of the fantastic in literature specifically as the topic relates to women's

First-Year Seminar Program

experience. Emphasis on the use of the fantastic to explore concepts of identity and human relationships, with special attention to sources in oral tradition and the creation and exploitation of myth and legend. Readings include:

Bruno Bettelheim, *The Uses of Enchantment*

Brothers Grimm, selected fairy tales

Mary Shelley, *Frankenstein*

Freud, "The Uncanny"

Toni Morrison, *Beloved*

Maxine Hong Kingston, *The Woman Warrior*

Stories by Tatiana Tolstaya, Selma Lagerlof, American Indian women, Zora Neale Hurston, and E.T.A. Hoffman

Catharine Nepomnyaschy, *Russian Department*

Autumn, Tu Th 2:40-3:55.

FSM BC 1119x. Heroes and Heroines.

The course will examine, through contrasting texts involving the same character, the use of heroic male or female figure to express the author's views of the individual in relation to his society at some critical moment in that society's existence. Readings include:

Sophocles' and Anouilh's *Antigone*

Sophocles, *Oedipus*. Cocteau, *Infernal Machine*, and Stravinsky, *Oedipe*

Mozart, *Don Giovanni*, and Shaw, *Man and Superman*

Seneca, *Phaedra*, and Racine, *Phèdre*

Gluck, *Orfeo*, Offenbach, *Orphée aux enfers*, Stravinsky, *Orpheus*

Hubert Doris, *Music Department*

Autumn, Tu Th 10:35-11:50.

FSM BC 1123x. Lying and Self-Deception.

What is truth? What is falsehood? What is a lie? Why is lying bad? What is it to be self-deceived? Readings include selection from philosophical and literary works:

Oscar Wilde, *The Decay of Lying*

Joseph Conrad, *Lord Jim*

Henry James, *The Wings of the Dove*

Henrik Ibsen, *The Wild Duck*

Sissela Bok, *Lying*

Selections from Homer, Plato, Montaigne, Joseph Butler, Nietzsche, Isenberg

Mary Mothersill, *Philosophy Department*

Autumn, M W 9:10-10:25.

FSM BC 1124y. Poetry, Truth and Beyond.

Can and do poems reveal truth about this life? It is curious that three of the major long

poems of Western culture claim to reveal deep and complex truths about human life from out of the place of the dead, through imagined or possibly real observations of, or conversations with, the dead and other inhabitants of the Other Place. How can such real or imagined observations be truly revelatory about this life, even if you do not believe in the Other Place? Readings include:

Dante, *The Divine Comedy*

Goethe, *Faust*

James Merrill, *The Changing Light at Sandover*

Mayderen, *The Divine Horseman*

John Dee, *Language of Angels*

Poetry by Emily Dickinson

Robert Tragesser, *Philosophy Department*

Spring, M W 1:10-2:25.

FSM BC 1125 y. Women and Comedy.

An investigation of the relationship between women and comedy in literature and society, focusing on differences in humor (both perceived and real) between the sexes. We will examine comic visions of and about women in novels, plays, films, essays and performance. Readings include:

Alice Duer Miller, *Are Women People? A*

Book of Rhymes for Suffrage Times

Zora Neale Hurston, *I Love Myself When I am Laughing*

Gertrude Stein, *The Mother of Us All*

Fay Weldon, *The Life and Loves of a She-Devil*

Jane Wagner, *The Search for Signs of Intelligent Life in the Universe*

Aristophanes, *Lysistrata*

Aphra Behn, *The Rover*

Brenda Gross, *English Department*

Spring, Tu Th 10:35-11:50.

FSM BC 1126x. Pictorial Narrative: 15th to 17th Century.

A reading of selected texts from the Bible and from Ovid's *Metamorphoses* and an examination of paintings and sculpture that interpret those texts. The class will look at how Renaissance images were made to function as though they were written stories. Discussion of the nature of literary narrative as well as the properties of visual images in this time period.

Sheila McTighe, *Art History*

Autumn, M W 11:10-12:15.

First-Year Seminar Program

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1206x. Violence and Non-Violence. An exploration of the causes and consequences, nature and dynamics of violence and non-violence, ranging over a broad spectrum of topics. Supplementary readings from Sophocles, Gandhi, William Golding, Martin Luther King, Jr.

Dennis Dalton, Political Science
Autumn, Tu Th 10:35-11:50.

FSM BC 1208x. Power and Justice.

Ideas of power and justice in law and literature. Readings will include selections from the Bible and works by Plato, Sophocles, Machiavelli, Shakespeare, Melville, Wright and O'Connor.

Ruth Kivette, English Department
Autumn, Tu Th 10:35-11:50.

FSM BC 1214y. Aspects of Power.

The Seminar will examine relations of power from three points of view: (a) the social structure of the ruling elite, with particular reference to the U.S., (b) the power of the governed to resist, as in the Civil Rights Movement, and (c) the expression of power or dominance in interpersonal relationships. Readings include works by Demming, Machiavelli, C. Wright Mills, A. Rich, Vonnegut, V. Woolf.

Lila Braine, Psychology Department
Spring, M W 11:00-12:15.

FSM BC 1216y. Revolution: Locke to Luxemburg.

Close reading of revolutionary and counter-revolutionary texts from the 17th through the 20th century. Examination of revolutions as debates among competing points of view, with emphasis on the ways in which the language of revolution is challenged and transformed in the course of those debates. Readings include:

Thucydides, *The Peloponnesian War*, selections
Locke, *Two Treatises on Government*
Paine, *Common Sense* and *The Rights of Man*
Burke, *Reflections on the Revolution in France*
Wollstonecraft, *Vindication of the Rights of Women*

Lenin, *What Is to Be Done?*

Luxemburg, "Leninism or Marxism?"

Kollontai, "Women and the Revolution"

Herbert Sloan, Department of History
Spring, M W 2:40-3:55.

FSM BC 1222y. Discourses of Power: Authority, Submission and Defiance.

Ways in which individuals define and question the source and nature of authority (divine will, social structures, the politics of colonialism) and come to terms with its demands, whether through submission or defiance. Readings include:

Selections from the Old Testament

Sophocles, *Antigone*

Calderón, *Life is a Dream*

Melville, *Billy Budd*

Wagner, *The Ring of the Nibelungen*

Freud, *Civilization and its Discontents*

Puig, *The Kiss of the Spider Woman*

Morrison, *Beloved*

James Crapotta, Spanish Department
Spring, M W 2:40-3:55.

III. WOMEN IN LITERATURE AND CULTURE

An investigation into the ways in which women's experience has been imagined in literature and constructed in culture. Emphasis will be on female destiny and desire; rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship on women.

Each seminar will draw approximately two-thirds of its readings from the following core list of writings:

Homer, *The Odyssey*

Sophocles, *Antigone*

Homeric *Hymn to Demeter*

Kalidasa, *Sakuntala*

William Shakespeare, *As You Like It*

Leo Tolstoy, *Anna Karenina*

Virginia Woolf, *A Room of One's Own*

Alice Walker, *The Color Purple*

Lyric poetry by Sappho, early Buddhist
nuns, Anna Akhmatova, Sylvia Plath,
Adrienne Rich, Audre Lorde.

Selected essays by Nancy Chodorow,
Carol Gilligan, Sherry Ortner.

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FSM BC 1306y. Women in Literature and Culture.

Special texts:

Simund Freud, *Dora: Analysis of a Case History of Hysteria*

Maxine Hong Kingston, *The Woman Warrior*

Toni Morrison, *Beloved*

Jamaica Kincaid, *Annie John*

Susan Sacks, *Education Program*
Spring, Tu Th 2:40-3:55.

FSM BC 1311x. Women in Literature and Culture.

Special texts:

Maxine Hong Kingston, *The Woman Warrior*

Kan'ami, *Matsukaze* (a play from the Nō theater)

Fumiko Enchi, *Masks*

Alice Walker, selections from *In Search of Our Mothers' Gardens*

Vivian-Lee Nyitray, *Religion Department*
Autumn, M W 1:10-2:25.

FSM BC 1312y. Women in Literature and Culture.

Special texts:

Isabel Allende, *The House of the Spirits*

Toni Morrison, *Beloved*

Cafer, *The Line of the Sun*

Selections from Latin American women poets

Agueda Rayo, *Spanish Department*
Spring, Tu Th 4:10-5:25.

FSM BC 1313y. Women in Literature and Culture.

Special Texts:

Bible

Toni Morrison, *Beloved*

Maxine Hong Kingston, *The Woman Warrior*

Leslie Silko, *Ceremonies*

Anzia Yezierska, *Bread Givers*

Anaya, *Bless Me, Ultima*

Celia Deutsch, *Religion Department*
Autumn, Tu Th 4:10-5:25.

FSM BC 1314x. Women in Literature and Culture.

Special texts:

Virginia Woolf, *Orlando*

Kate Chopin, *The Awakening*

Ntozake Shange, *for colored girls who have considered suicide when the rainbow is enuf*

Selected dances of 19th and 20th century choreographers

Ellen Graff, *Dance Department*

Autumn, M W 11:00-12:15.

FSM BC 1315y. Women in Literature and Culture.

Special texts:

Jamaica Kincaid, *Annie John*

Anzia Yezierska, *Bread Givers*

Amy Tan, *The Joy Luck Club*

Toni Morrison, *Beloved*

Dorothy Denburg, *Dean's Office*
Spring, M W 4:10-5:25.

IV. ASPECTS OF THE HUMAN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1401y. The Modern Idea of Freedom.

This seminar examines texts, from the 17th to the 20th century, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses. Readings include:

Pedro Calderón de la Barca, *Life is a Dream*

Jonathan Swift, *Travels into Several Remote Regions of the World*

Jorge Luis Borges, "Tlong, Ugbar, Orbis Tertius"

Thomas Pynchon, *The Crying of Lot 49*

Alfred Mac Adam, *Spanish Department*
Spring, Tu Th 1:10-2:25.

FSM BC 1403x. The Rise and Fall of Liberalism.

The ethos of liberalism has been at the ideological center of the modern, industrial world. This seminar examines classic statements of the liberal ideal, major challenges to it, and how liberal ideas have changed over time. Readings include:

John Locke, *Two Treatises on Government*

Adam Smith, *The Wealth of Nations*

Mary Wollstonecraft, *Vindication of the Rights of Women*

Rosa Luxemburg, "Leninism or Marxism?"

V.I. Lenin, *What Is to Be Done?*

Sigmund Freud, *Civilization and Its Discontents*

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John Maynard Keynes, *Essays in Persuasion*

Milton Friedman, *Capitalism and Freedom*

William McNeil, *History Department Autumn, M W 11:00-12:15.*

FSM BC 1412y. Illness and Society.

Analysis of the experience of illness and of the social and ethical values surrounding it. Western and non-Western literature is read for an understanding of the responses to illness by the patient, family and friends, and physicians. Class discussion will extend to the role of self-help efforts, of nutritional, herbal and holistic approaches to care. Texts include:

Gilman, *The Yellow Wallpaper*

Tolstoy, *The Death of Ivan Ilyich*

Lightfoot, *Balm in Gilead*

Camus, *The Plague*

The Book of Job

Rong, *At Middle Age*

Logan, *Motherwit: Alabama Midwife's Story*

Kesey, *One Flew Over the Cuckoo's Nest*

Teresa Rogers, *Sociology Department Spring, M W 1:10-2:25.*

FSM BC 1416y. History, Truth and Fiction.

This course will grapple with how to construct accurate explanations of the past by focusing on one mystery story, one sociological study, and an assortment of other literature including novels, literary criticism, oral testimonies, and histories that highlight African American women and family relations under slavery and freedom in the United States. Readings include:

Josephine Tey, *Daughter of Time*

The Moynihan Report

Harriet Jacobs, *Incidents in the Life of a Slave Girl Written by Herself*

Sherley Ann Williams, *Dessa Rose*

Toni Morrison, *Beloved*

Herbert Gutman, *The Black Family in Slavery and Freedom*

Selections from the Federal Writers Project: *The American Slave: A Composite Autobiography*

Barbara Christian, *Black Feminist Criticism*

Temma Kaplan, *Center for Research on Women*

Spring, Tu Th 2:40-3:55.

FSM BC 1417y. Illusion.

A study of the many illusions — memories, dreams, riches, ghosts, loves, lost horizons,

ideals — characteristic of modern life as seen in the work of John Berger, Colette, Picasso, Proust, Freud, Walter Benjamin, Simone de Beauvoir, Alfred Hitchcock, and Roland Barthes. Technology, markets, wars, prejudice, and psychology all helped to structure illusion and proposed new forms for illusion to take, new concepts, new abstractions, and new roles for the eye. The seminar will examine these illusions in order to introduce the general problem of representation in modern culture as a problem of vision.

Margaret Nesbit, *Art History Department Spring, Tu Th 4:10-5:25.*

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1517x. The Nature of Human Nature.

An exploration of the nature of human nature as seen from within four cultural contexts in the ancient world. Biblical, Greek, Indian and Chinese sources are mined for an understanding of different conceptions of what it means to be human, of human potential and fulfillment, of human dignity, the issue of equality and inequality, and the relation of the human to ultimate reality. Readings include selections from the books of Genesis and Job, Plato's *Phaedo*, the *Chandogya Upanishad*, the Confucian *Analects*, and the *Mencius*. Selections from Kierkegaard, Freud and Edmund Wilson.

Irene Bloom, *Oriental Studies Autumn, M W 11:00-12:15.*

FSM BC 1518y. Communication and Pseudo-communication through Language.

Study of communicational difficulties both across languages and internal to one language, focusing on the danger of social and humanistic abuses, and with special emphasis on ethnocentrism (including anti-Semitism and racism) and sexism (including homophobia). Readings include portions of:

Franz Boas, *Introduction to the Handbook of American Indian Languages*

S.I. Hayakawa, *Language in Thought and Action*

Joseph Malone, *The Science of Linguistics in the Art of Translation*

S.U. Philips, *Language, Gender and Sex in Contemporary Perspective*

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Howard Schwartz, *Gates to the New City: A Treasury of Modern Jewish Tales*

Barbara Smith, *Home Girls: A Black Feminist Anthology*

Benjamin Whorf, *Language, Thought and Reality*

Joseph Malone, *Linguistics Department*

Spring, Tu Th 10:35-11:50.

FSM BC 1519x. Perceptions of the Alien.

An exploration of how the "other" — those not like "us" — are perceived: for example, foreigners, "ethnics," the other gender. The class will discuss portrayals of such aliens in fiction, in scholarly literature, and in other accounts. Readings include:

Shakespeare, *Othello* and *Merchant of Venice*

Forster, *A Passage to India*

ibn Fadlan, "The Varangians"

Klass, "The Artificial Alien"

Selections from such authors as Lévi-Strauss, Mead, Malinowski

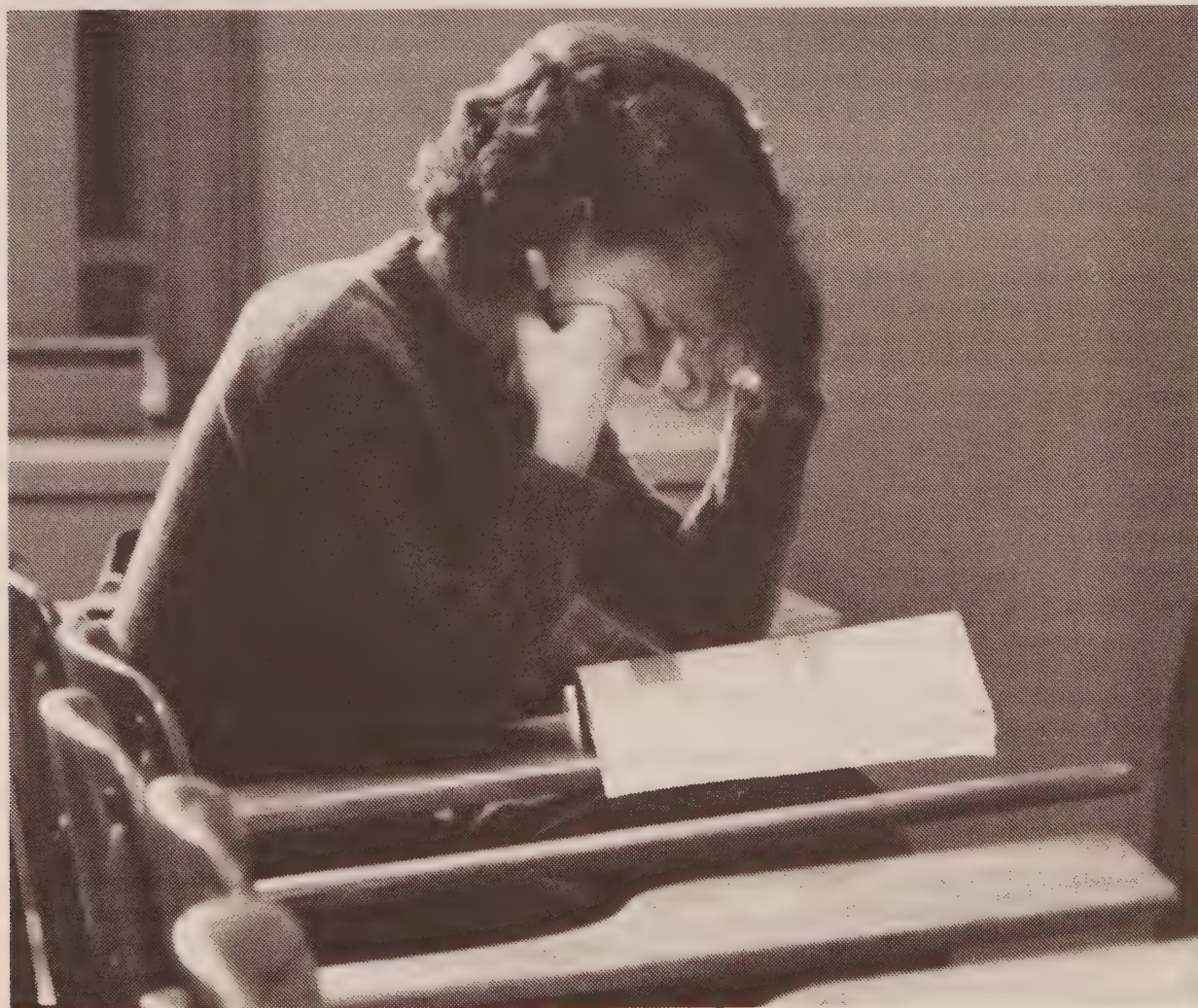
Morton Klass, *Anthropology Department*

Autumn, Tu Th 9:10-10:25.

FSM BC 1521x. Americans in Paris.

From Henry James' late 19th century protagonist Lewis Lambert Strether through Gene Kelly, tap-dancing his way around Hollywood's version of Paris, Americans have always been enchanted and mystified (and frequently undone) by the City of Light. We will explore their encounter, especially as it has occurred during the 20th century, and this will lead us into an exploration not only of the expatriate experience but also of modern art — of modernism in music, dance, and the visual arts, as well as in the writing of such expatriates as Henry James, Gertrude Stein, F. Scott Fitzgerald, Ernest Hemingway and James Baldwin, among others.

Nancy Kline Piore, *English Department*
Autumn, Tu Th 1:10-2:25.



Foreign Area Studies

Office: 321A Milbank Hall

Telephone: 854-2125, 5417

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology

Abraham Rosman

Professor of French

Serge Gavronsky

Associate Professor of History

William McNeil

Assistant Professor of History

Deborah Valenze

Professor of Oriental Studies

Barbara Stoler Miller

Professor of Political Science

Peter H. Juviler

Professor of German

Gertrud M. Sakrawa

The purpose of Foreign Area Studies is to provide an introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area studies is open to a limited number of qualified students whose applications are approved by the committee in charge. First-year students and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Oriental Studies (Adviser: To be announced). See *Oriental Studies*, page 191.

European Studies (Adviser: Professor McNeil)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

- A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).
- B. 10 courses focusing on a country or region to include:
 - 2 courses in European History;
 - 2 courses in the literature or cultural studies of one country in the original language;
 - 2 semester senior projects under the direction of the program adviser or an adviser in the minor field;
 - 4 courses outside the minor field dealing with the selected country or region drawn from the following list:

Anthropology V 3007
Anthropology V 3037
Anthropology V 3038

Peoples of Europe
Societies in Transition
Ethnicity and Race

Foreign Area Studies

Art History courses on European topics

Economics BC 3030

Economics G 4313

History

Political Science BC 3007

Political Science BC 3013/3014

Political Science ISP G 4415

Comparative Economic Systems

Economic History of Europe

European History courses

Modern Political Movements

Political Theory

*Social and Political Institutions in Italy
Today*

French courses in Culture and Literature, See French, page 145

German courses in Cultural and Literature, See German, page 153

Italian courses in Culture and Literature, See Italian, page 169

Spanish courses in Culture and Literature, See Spanish, page 250

Latin American Studies (Adviser: Professor MacAdam)

A major consists of the four courses below and six additional courses, two of which should be in one department and above the introductory level. These courses, to be chosen with the help of the adviser, should come from the department listed below:

Spanish BC 3115x. BC 3116y

Spanish BC 3121x

Spanish BC 3034

Latin-American Culture

The Literature of Latin America

Independent Research in Latin America

Anthropology, Art History, Economics, History, Religion, and Spanish.

Soviet Studies (Adviser: Professor Juviler)

The major consists of

4 years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and

8 courses distributed in the following subjects:

2 courses in Russian or Soviet literature (in translation or Russian):

2 courses in Russian history:

1 course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);

1 course in Soviet politics; and

2 semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

French

Office: 314 Milbank Hall

Telephone: 854-8312

Professors

Serge Gavronsky (Chair), Renée Geen¹

Visiting Professors

Solange Guénoun, Emmanuel Hocquard

Adjunct Assistant Professor

Anne Boyman

Assistant Professor

Nancy Piore (English)

Instructors

Laure Borgomano, Mildred Camille, Daphne Dejanikus, Olga Dull, Isabelle Jouanneau-Fertig, Catharine Franke, Laurence Catherine Lang, Colette Pratt, Anne Protopappas

¹Absent on leave Spring Term

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination, CEEB examinations) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chair.

Students who have satisfied the language requirement may take literature courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French and English with lectures, discussions, and papers in English (BC 3046, BC 3047, BC 3048, BC 3049); and advanced language courses BC 1306, BC 1307.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad page 36.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on French History, literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte*.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

In consultation with the adviser of her choice, the student majoring in French may select either of the following options:

Language and Literature

Ten courses are required for the major:

French BC 3021
and BC 3022
or

*Masterpieces of Literature from the Middle Ages
to the Twentieth Century*

French BC 3023
and BC 3024

The Culture and Institutions of France

Two of the following language courses:

French BC 3012	<i>History of the French Language</i>
French BC 3013	<i>Advanced Composition and Grammar</i>
French BC 3014	<i>Advanced Translation</i>
French BC 3015	<i>Advanced Translation into French</i>
French BC 3016	<i>Advanced Oral French</i>
French BC 3017	<i>The Translation of Dialogue</i>

5 literature courses chosen from BC 3031-BC 3043; and

One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course.

Translation and Literature

The major requires 10 courses:

French BC 3021 and BC 3022, or BC 3023 and BC 3024;

French BC 3014 and two other advanced language courses chosen from courses BC 3013, BC 3015, or BC 3017;

4 one-term literature courses numbered BC 3031-BC 3043; and

one-term seminar numbered BC 3053 or a Senior Essay in Translation.

The student is expected to declare her option by the end of the junior year. Either program may include additional courses in French literature and language, or in other subjects which vary with the interest of the student.

REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:

French BC 3021 and BC 3022, or BC 3023 and BC 3024;

2 advanced language courses (French BC 3012-BC 3017); and

3 advanced literature courses (French BC 3031-BC 3043).

A student who elects French as part of a combined double, or interdisciplinary major will establish her individualized program with the departments concerned.

COURSES OF INSTRUCTION

LANGUAGE COURSES

All courses except BC 3014 and BC 3017 are conducted in French. All students in 1203 and 1204 are expected to have a walkman.

FRE BC 1001x-FRE BC 1002y. Elementary Full-Year Course.

Grammar, reading composition — Staff.

Course Chairman: M. Camille.

Enrollment limited to 20 students per section.

One hour of oral drill is required. 4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

Section 1 M Tu W Th F 9:00. C. Franke.

Section 2 M Tu W Th F 10:00 D. Dejanikus.

FRE BC 1102x. Review of Elementary French.

Oral and written review of basic grammar and syntax. Reading in modern literature,

free composition, translation. One hour of oral drill is required. — Staff.

Course Chairman: I. Jouanneau-Fertig.

Primarily for students who need further instruction to qualify for the intermediate course. Enrollment limited to 20 students per section.

3 points.

Sec. 1 M W F 9:00. L. Lang.

Sec. 2 M W F 11:00. C. Franke.

Sec. 3 Tu Th 9:10-10:25. M. Camille.

Sec. 4 Tu Th 10:35-11:50. I. Jouanneau-Fertig.

Sec. 5 Tu Th 1:10-2:25. M. Camille.

FRE BC 1203x. Intermediate Course.

Grammar and syntax. Reading in modern literature, free composition, translation. One hour of oral drill is recommended. — Staff.

Course Chairman: M. Camille.

Prerequisites: BC 1001-BC 1002, BC 1102, C 1101-C1102, or an appropriate score on the placement test. Enrollment limited to 20

French

students per section. Fourth lab hour to be arranged.

Course fee \$10.

4 points.

Sec. 1 M W F 9:00. D. Dejanikus.

Sec. 2 M W F 10:00. L. Lang.

Sec. 3 M W F 11:00. S. Guénoun.

Sec. 4 M W F 11:00-11:50. A. Protopappas.

Sec. 5 Tu Th 10:35-11:50. C. Franke.

Sec. 6 Tu Th 10:35-11:50. M. Camille.

FRE BC 1203y. Intermediate Course.

Equivalent of BC 1203x, but given in the Spring Term. — Staff.

Course Chairman: I. Jouanneau-Fertig.

Prerequisites: BC 1001-BC 1002, BC 1102, C 1101-C 1102, or an appropriate score on the placement test. Enrollment limited to 20 students per section. Fourth lab hour to be arranged.

Course fee \$10.

4 points.

Sec. 1 M W F 10:00. C. Franke.

Sec. 2 M W F 11:00. O. Dull.

Sec. 3 M W 1:10-2:25. C. Pratt.

Sec. 4 Tu Th 10:35-11:50. L. Lang.

Sec. 5 Tu Th 1:10-2:25. I. Jouanneau-Fertig.

FRE BC 1204x,y. French through Literary Analysis. Intermediate Course II.

Study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French. — Staff.

Course Chairs: x: R. Geen, y: L. Borgomano.

Prerequisite: BC 1203 or an appropriate score on the placement test.

Enrollment limited to 20 students per section. One hour of oral drill is recommended.

3 points.

x: Sec. 1 M W F 10:00. R. Geen.

Sec. 2 M W F 1:10-2:25. S. Guénoun.

Sec. 3 Tu Th 10:35-11:50. L. Lang.

Sec. 4 Tu Th 1:10-2:25. I. Jouanneau-Fertig.

y: Sec. 1 M W F 9:00. M. Camille.

Sec. 2 M W F 10:00. O. Dull.

Sec. 3 Tu Th 9:10-10:25. L. Borgomano.

Sec. 4 Tu Th 1:10-2:25. L. Borgomano.

Sec. 5 Tu Th 1:10-2:25. L. Lang.

FRE BC 1205y. Intermediate Oral French.

Intensive oral work. Pronunciation exercises, vocabulary enrichment through discussions on prepared topics, poetry recitation, and theatrical presentations. — I. Jouanneau-Fertig.

Prerequisite: BC 1102 or BC 1203, or a satisfactory score on the placement test. This

course does not satisfy the language requirement.

Enrollment limited to 15 students.

3 points. Not offered in 1990-91.

FRE BC 1306x,y. Composition and Conversation.

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development, conversations, debates based on controversial themes taken from French newspapers and magazines.

Prerequisites: BC 1204 or a satisfactory score on the placement test.

Enrollment limited to 15 students. Course fee \$10. 3 points. Recommended for students taking FRE BC 1307y.

x: Tu Th 10:35-11:50. L. Borgomano.

y: Tu Th 1:10-2:25. N. Piore.

FRE BC 1307y. Advanced French: Commercial-Economic French.

The socio-economic language of contemporary French society. Practice of oral and written communications. Study of texts and documents from the French press. Students who have completed this course may wish to take the Certificate given by the Chambre de Commerce et d'Industrie de Paris. — L. Borgomano.

Prerequisite: Satisfaction of the language requirement or permission of the instructor. BC 1306 recommended. Course fee \$5.00.

3 points. Tu Th 10:35-11:50.

FRE BC 3012x. History of the French Language.

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the twentieth century. Analysis and translation of representative texts.

Majors preferred.

3 points. Not offered in 1990-91.

FRE 3013y. Advanced Composition and Grammar Review.

Systematic study of morphology, syntax, and idiomatic constructions; exercises, compositions, occasional translations into French. — I. Jouanneau-Fertig.

Nonmajors may take the course with the permission of the instructor.

3 points. Tu Th 10:35-11:50.

French

FRE BC 3014x. Advanced Translation.

Translation of various styles of prose and poetry from French to English — A. Boyman. *Nonmajors may take the course with the permission of the instructor.*
3 points. M W F 10:00.

FRE BC 3015x. Advanced Translation into French.

Translation from English to French of various styles of prose and poetry. — R. Geen. *Nonmajors may take the course with the permission of the instructor.*
3 points. Not offered in 1990-91.

FRE BC 3016y. Advanced Oral French.

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, dramatic readings and oral *explication de texte*. — A. Boyman. *Nonmajors may take the course with the permission of the instructor.*
Enrollment limited to 15 students.
3 points. M W F 10:00.

FRE BC 3017x. Advanced Translation: Theatrical Dialogue.

Translation of passages from French plays and movie scripts. Group and individual projects. — A. Boyman. *Nonmajors may take the course with the permission of the instructor.*
3 points. Not offered in 1990-91.

FRE BC 3018x. Creative Writing.

Intensive November writing workshop emphasizing new approaches to narrative prose and poetry.—E. Hocquard.
Prerequisite: Satisfaction of the language requirement or permission of the chair.
1 point. W 4:10-6:00.

LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047, BC 3048 and BC 3049 are conducted in English.

FRE BC 3020x. Special Themes in Modern French Literature: Surrealism in Film and Painting.

Major theoretical texts of Tzara, Breton, Dali and others and their impact on the films of Buñuel, Picabia, Clair, Artaud and Man Ray

and paintings by Ernst, Dali, Masson, Magritte and Bellmer. — S. Gavronsky.
Prerequisite: Satisfaction of the language requirement in French. Enrollment limited to 20 students.
3 points. Tu Th 1:10-2:25. H

FRE BC 3020y. Special Themes in Modern French Literature.

Prerequisite: Satisfaction of the language requirement in French.
3 points. Not offered in 1990-91.

FRE BC 3021x, FRE BC 3022y. Masterpieces of Literature from the Middle Ages to the 20th Century.

Scope and variety of French literature through analyses of significant works and currents from the Middle Ages to the 20th century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: The Age of Enlightenment, Romanticism, Realism and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022.

Prerequisite: Satisfaction of the language requirement in French.

3 points.x: M W F 11:00. R. Geen.

y: M W F 10:00. M. Camille. H

FRE BC 3021y. Masterpieces of Literature from the Middle Ages to the 20th Century.

Part I. Equivalent of Course BC 3021x but given in the Spring Term.

Prerequisite: Satisfaction of the language requirement in French.

3 points. Not offered in 1990-91.

FRE BC 3022x. Masterpieces of Literature from the Middle Ages to the 20th Century.

Part II. Equivalent of BC 3022y but given in the Autumn Term. — S. Guénoun.

Prerequisite: Satisfaction of the language requirement in French.

3 points. M W F 10:00. H

FRE BC 3023x, FRE BC 3024y. The Culture and Institutions of France.

Major cultural and institutional foundations of France from the Middle Ages to the present; the play of these forces on the contemporary period. Readings include historical, religious, and literary sources. —S. Gavronsky.

Prerequisite: Satisfaction of the language requirement in French.

3 points. Not offered in 1990-91. H

French

FRE BC 3031x. Religious and Intellectual Ideas in the Middle Ages.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points. Not offered in 1990-91. H

FRE BC 3032y. Power and Religion in the 16th Century.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 20 students.

3 points. Not offered in 1990-91. H

FRE BC 3033y. Renaissance, Baroque and Classical Poetry.

Aesthetics of poetry from early Renaissance to classical age. *Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.*

3 points. Not offered in 1990-91. H

FRE BC 3034x. French Classical Literature and Culture.

Course will focus on the literature of 17th century France. Emphasis on the emergence of bourgeois mode of discourse and the socio-political forces which shaped both the absolute monarchy and its ambivalent artists known as "Artisans of the Glory of the Sun King." Readings will include Descartes, Corneille, Molière, Racine, Pascal, La Bruyère and La Fayette.—S. Guénoun.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.

3 points. Tu Th 10:35-11:50. H

FRE BC 3035x. Eighteenth-Century French Fiction.

Courses and discourses of the heroine in selected 18th-century novels. The rise of the harlot, the tribulations of the orphan, the fall of the noblewoman, and the revenge of the betrayed in Prevost: *Manon Lescaut*, Marivaux: *La Vie de Marianne*, Diderot: *La Religieuse*, and Laclos: *Les Liaisons dangereuses*. Transpositions of the 18th-century heroine in operas and films. — R. Geen.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Not offered in 1990-91. H

FRE BC 3037y. Nineteenth-Century French Poetry

Poetry and poetics from Romanticism through Symbolism. Selections from the works of Hugo, Nerval, Baudelaire, Rimbaud, and Mallarmé. — A. Boyman.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. M W F 11:00.

H

FRE BC 3038y. The Nineteenth-Century French Novel.

Evolution of the novel, aesthetics of Romanticism, Realism, and Naturalism. Authors will include Balzac, Stendhal, Flaubert, and Zola.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent or the permission of the instructor.

3 points. Not offered in 1990-91. H

FRE BC 3039x. Twentieth-Century French Theater.

Tradition and innovation in major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal. — R. Geen.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. M W 1:10-2:25. H

FRE BC 3040y. Twentieth-Century Fiction.

Theory and forms of the novel. A study of the evolution of the "genre" through a careful reading of Colette: *La Vagabonde*, Proust: *Du Côté de chez Swann*, Gide: *L'Immoraliste*, Sartre: *La Nausée*, Sarraute: *Les fruits d'or*, Mauriac: *Thérèse Desqueyroux*.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Not offered in 1990-91.

FRE BC 3041x. Twentieth-Century French Thought.

Interplay between ideology and literature in some of the major movements of the century including Surrealism, Existentialism, Structuralism, Action française and the Catholic tradition. Readings include Aragon, Breton, Sartre, Barthes, Althusser, Maurras, La Rochelle, Bernanos, and Céline. — S. Gavronsky.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Tu Th 10:35-11:50. H

FRE BC 3042y. Twentieth-Century French Poetry.

This course will study the relationship between contemporary autobiographical theory and questions raised in the poetic transcription of self. Topics include the interplay between author and narrator, principles of poetic transformation, function of rhetoric in redefining reality, role of intertextuality in modifying personal experience. Poets to be read include Cendrars, Apollinaire, Aragon,

Césaire, Michaux, Saint-John Perse, Morand and Roubaud. — S. Gavronsky.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Not offered in 1990-91. H

FRE BC 3043y. Feminism and Literature.

An historical examination of women's writings in relations to scientific, economic, ideological and cultural developments. Special emphasis placed on contemporary issues in French feminism. Readings include Christine de Pisan, Louise Labé, Scudéry, de Sévigné, Sand, Duras, Irigaray, Kristéva, and Cixous.—S. Guénoun.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Tu Th 1:10-2:25. H

FRE BC 3046x. Socioeconomic Aspects of Contemporary French Society.

This course will explore the major social and economic changes in France since the onset of rapid economic growth in the postwar years through the recent economic crisis. Subjects covered will include: population in France, family organization, place of education in the social system, class and gender differences, labor-management relations, changes in French business firms, crisis of the welfare state, evolution of French lifestyles and new forms of young and popular culture.—L. Borgomano.

Prerequisite: Satisfaction of language requirement and one advanced French course or permission of the instructor.

3 points. Tu Th 1:10-2:25.

FRE BC 3047x. Foucault.

Examination of Foucault's work within the major intellectual trends of his time. Readings include: *Madness and Civilization*; *The Order of Things*; *Discipline and Punish*; *History of Sexuality*. Lectures will be in English.—A. Boyman.

Prerequisite: Satisfaction of the language requirement.

3 points. M W F 11:00.

FRE BC 3048y. Critical Theory I.

This course will focus on the major positions that have shaped contemporary French critical thought: the structure of language, the problem of *énonciation*, *écriture* and psychoanalysis. Readings from the works of Saussure, Jakobson, Benveniste, Barthes, Lacan, and Kristéva. — A. Boyman.

Prerequisite: Satisfaction of the language requirement and permission of the instructor.

3 points. Not offered in 1990-91.

FRE BC 3049y. France on Film.

Analysis of some of the major historical, ideological and cultural aspects of 20th-century France through readings and analyses of films and documentaries. Topics include: (1) Workers and Students, 1936/1968; (2) The Wars: Resistance, the Jew and the Arab; (3) Peasants and the Bourgeoisie; (4) Working Women; (5) Intellectuals: Art and Commitment. Selected readings in French and English on history and filmic theory. Screenings of films by Godard, Chabrol, Ophuls, Pontecorvo, Renoir, Buñuel and others.—S. Gavronsky.

Prerequisite: Satisfaction of the French language requirement and one advanced course in French or permission of the instructor.

3 points. Screenings M 7:00-9:00, Discussions Tu 4:10-6:00.

SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

FRE BC 3052x. Seminar in Language and Literature.

4 points. Not offered in 1990-91.

FRE BC 3053y. Seminar in Translation and Literature.

S. Gavronsky.

4 points. W 4:10-6:00.

SENIOR ESSAYS

A Senior Essay may be taken in lieu of the senior seminar only by seniors with an A-average in the department. Written permission of sponsor and chair is required in advance of registration period. All students will take the senior majors' examination; the defense of the essay constitutes the oral part of the majors' examination. Normally a one-semester course.

FRE BC 3057x, 3058y. Senior Essay: Literature.

Research into a topic of French literature and presentation of a long essay written in French.

French

FRE BC 3059x, 3060y. Senior Essay: Translation.

Presentation and translation into English of a French text of significant length and literary value.

STUDY IN PARIS

Reid Hall Programs
419 Lewisohn Hall, 854-2559

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change.

Students may study at Reid Hall for one term (autumn, spring, or summer) or for an entire academic year. Students in the autumn programs may stay on for the spring. Participation in the Reid Hall Programs (except during the summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: April 1

1. *The Intensive French Language Program.* Open to students with two years of college-level French or the equivalent.

2. *The French Studies in the Humanities and Social Sciences Program.* Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation. Students may take up to two of their courses in the French University system.

3. *The Art History Program.* Open to students in good standing who have completed two years of college French or the equivalent, and one introductory art history course with grades of B or better.

4. *The Supervised Research Program.* Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French University system and, in addition, must complete a memoir, a research

paper of publishable quality of at least 30 pages in length.

SPRING PROGRAMS

Application Deadline: October 1

1. *The Intensive French Language Program.* Open to students with two years of college-level French or the equivalent.

2. *The French Studies in the Humanities and Social Sciences Program.* Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition or conversation. Students may take up to two of their courses in the French University system.

3. *The Supervised Research Program.* Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French University system and, in addition, must complete a memoir, a research paper of publishable quality of at least 30 pages in length.

ACADEMIC-YEAR PROGRAMS

Application Deadline: April 1

1. Students in the above-mentioned autumn programs may stay on for the spring. A variety of program options are available and are included in the descriptions of the autumn programs.

2. *The Academic-Year Program.* Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and write a thesis.

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and to persons without current academic affiliation. All courses are offered for academic credit. Although the program changes from year to year, a typical Paris offering includes courses in intermediate and advanced French and in art history. Courses in film, literature, history, and philosophy may also be available. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February

of each year. For a copy, write or call the Summer Session Office of Admissions, 303 Lewisohn Hall, Columbia University, New York, N.Y. 10027; (212) 854-2752.

Courses Offered at Reid Hall in Paris

French H 3002q. Phonetics.

For students in the Intensive French Program. Theoretical analysis of the phonemic, phonetic, and physiological characteristics of French speech. — D. Barret, M-H. Drivaud. 2 points.

French H 3003x, y. Phonetics.

For students in the French Studies in the Humanities and Social Sciences Program. A theoretical as well as practical approach to pronouncing the French language. Set within a comparative sociolinguistic perspective, the course investigates class, age-grade, regional, and situational variations. — Instructor to be announced. 3 points.

French H 3333x, y. Introduction to Literary Study: Medieval to Neo-classical Literature.

For students in the French Studies in the Humanities and Social Sciences Program. Introduction to the scope and variety of French literature through the analysis of significant works and currents from Medieval and Renaissance to Neo-Classical literature. Lectures, discussions, and close textual analyses. — J-Y. Pouilloux. *Credit is not granted for both BC 3021 and H 3333 (or C 3333 or F 3333).* 4 points.

French H3334q. Introduction to Literary Study: From the 18th Century to the Present.

For students in the Intensive French Program. Introduction to the scope and variety of French literature through the analysis of significant works and currents. Lectures, discussions, and close textual analyses. —L. Vernière, L. Gaborit. *Credit is not granted for both BC 3022 and H 3334 (or C 3334 or F 3334).* 4 points.

French H 3439p. Practice in the French Language: Grammar and Composition.

For students in the Intensive French Program. Systematic study of grammar, including morphology, syntax, semantics, and idiomatic expressions, designed to improve writing and

other communication skills. —M-M. Charlier, C. Valéro. 3 points.

French H 3440p. Practice in the French Language: Aural/Oral Skills.

For students in the Intensive French Program. Concentration on the improvement of comprehension and speaking ability through oral presentations that focus on varied aspects of French civilization and culture, such as cinema literature, the media, cuisine, and the city of Paris.—M-M. Charlier, C. Valéro. 2 points.

French H 3441x, y. Advanced Practice in the French Language: Speaking for Argument and Persuasion.

For students in French Studies in the Humanities and Social Sciences Program. Emphasis on discursive strategies; how to express oneself in debates, oral presentations, interviews, roundtable discussions, têtes-à-têtes in order to influence and convince. Use of videotapes, sound recordings, media clippings, jeux de roles.—C. de Heredia, M-P. Chatras. 3 points.

French H 3442x, y. Advanced Practice in the French Language: Grammar and Composition.

For students in French Studies in the Humanities and Social Sciences Program. Morphology and syntax. Comparative stylistics. Thematic readings are used for analysis and oral reports as well as for intensive training in composition. — S. Hinglais, S. Lecoindre, J. Rousseau, D. van de Velde. 3 points.

French H 3444x or y. Composition and Stylistics.

Required for students who have completed French H 3442. The relationships of meaning, rhythm, sound, and time in relation to both words and sentences as tools for improving writing style. Reading of texts on style by Sartre, Barthes, Michaux, Leiris, Sarraute, Proust, and Vinaver and various written exercises to improve style.—L. Vernière, L. Gaborit. *Prerequisite: Advanced practice in the French language: grammar and composition, or its equivalent.* 3 points.

French

French H 3550x or y. History of the French Language.

The evolution of a standard French and its imposition upon all of France. The role of the Academie Française, the intervention of the State, and an analysis of the history of French attitudes and policies toward their language.—D. Manesse.

3 points.

French H 3602x, y. Contemporary French Literature.

For students in French Studies in the Humanities and Social Sciences Program.

Advanced work in aspects of French *modernité* as expressed in the literary and critical avant garde from surrealism to the present. Close textual analysis of works by Breton, Desnos, Leiris, Blanchot, Barthes, Sarraute, and Duras is undertaken according to various approaches, especially psychoanalytical and ethnographical criticism. — D. Haase-Dubosc.

Credit is not granted for both BC 3041 and H 3602.

3 points.

H

French H 3625x, y. Literary Analyses of French Culture.

For students in French Studies in the Humanities and Social Sciences Program.

Ideology and politics in the literary texts of the 20th century. The issues of exclusion and participation in terms of contemporary French cultural identity. French society's relationship to its literary heritage and to the French language. — J. Lecarme.

3 points.

French H 3655x or y. Short Narrative Forms in the Late 19th-Century: Fiction and Non-Fiction.

For students in French Studies in the Humanities and Social Sciences Program.

The short story (including the tale and the novella), on the one hand, and the fragmentary autobiography on the other, will be considered as constituting two literary *genres* whose evolution and interaction will be the object of study.—J. Lecarme.

Prerequisite: French H 3333 and/or H 3334 or the equivalent.

3 points.

H

French H 3991x-H 3992y. Supervised Study in the French University System.

For students in French Studies in the Humanities and Social Sciences Program.

Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.

2 to 15 points each term.

French H 3997x-H 3998y. Supervised Research in France.

2 to 6 points each term.

The following courses are also offered at Reid Hall. For complete descriptions, see the appropriate departmental section of this bulletin or the Reid Hall Programs Bulletin available at 412 Lewisohn Hall.

Art History H 3320x,y. Medieval Art and Architecture.

Art History H 3430q. Renaissance and 17th Century Art and Architecture.

Art History H 3550 x. French Architecture, 1750-1930 (in English).

Art History H 3604x. Seminar on Contemporary French Art.

Art History H 3990y. Claude Monet (Seminar).

Art History H 3993x. Planning Paris (Seminar in English).

Art Humanities H 3710y. Fine Arts in Paris (in English).

Comparative Literature H 3250x-H 3251y. Aesthetics I and II.

History H 2503q. Introduction to French Civilization and Culture.

History H 3460q. Intellectual and Social History of Paris.

Philosophy H 3550x,y. Aspects of Contemporary French Thought: Body, Machine, and Philosophical Space.

Political Science H 3250x. French Foreign Policy Since World War II.

Political Science-History H 3240q. The State and Political Life in France from the Revolution to the Present.

Political Science-History H 3260y. The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.

Political Science-History H 2810y. The Political Culture of Revolution in France: 1789 to the Present (Seminar).

Women's Studies H 3450y. Contemporary French Thought and Feminist Theory (Seminar).

Women's Studies H 3550y. Women and Society in France: Le Corps Ecrit (The Writing/Written Body) (Seminar).

German

Office: 320 Milbank Hall

Telephone: 854-8312

Professor

Gertrud M. Sakrawa¹ (Chair)

Assistant Professor

Sigrid Berka

Lecturer

Regina Ayre

Senior Associate

Marvin Shulman

¹Absent on leave Spring Term

For organizational purposes faculty teaching German language and literature courses will be included in the Department of German, Italian and Linguistics.

Courses in German are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

Three levels of language instruction are offered with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German BC 1001-BC 1002, includes a series of videocassettes that the students will view at the rate of one a week to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German BC 1203 and BC 1204, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. In advanced *Conversational German*, BC 3005, idiomatic usage is stressed; items in the German press and taped German broadcasts are used as aids to broaden the students' awareness of current trends and events. In *Advanced German Composition*, BC 3006, writing skills are developed. These two courses may be taken in reverse sequence.

BC 1007, *Elementary German: Intensive Reading* is designed for students interested in acquiring only a reading knowledge of German. This course may not be used to fulfill the language requirement.

Students who have completed, or have been exempted from, BC 1204 may enroll in BC 3005, *Conversational German*, in BC 3006, *Advanced German Composition*, or in literature courses taught in German. The department recommends that German BC 3011, *Introduction to German Literature and Civilization*, be elected as the first literature course. Special permission is required for enrollment in German BC 3061, the *Seminar*.

The literature courses taught in German have the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

The department will assist and advise those students who are interested in opportunities to study in a German-speaking country

REQUIREMENTS FOR THE MAJOR

The literature major in German includes 9 courses — German BC 3005 (3 pts.) or BC 3006, BC 3011 and BC 3061, and six additional advanced courses taught in German. The major examination consists of a three-hour written section (in English) and of an individual oral examination of one-half hour (in German). With special permission, a student may submit a senior essay (BC 3062) in place of the written section.

German

For information regarding the major in German Studies, students should see the department chair.

It is recommended that German majors include in their programs courses in another European culture and in other disciplines such as history, art history, and philosophy. While a major in German prepares students for graduate study in German, both a major *and*, to a lesser degree, a minor in German prepare them also for advanced study in a discipline in which competence in the German language and a knowledge of the culture of the German-speaking countries are either required or recommended.

A student who selects German as part of a combined major will establish her special program in consultation with the departments concerned.

REQUIREMENTS FOR THE MINOR

The minor in German requires five courses, German BC 3005 or BC 3006, BC 3011, and three additional literature courses taught in German, one of which may be BC 3061.

COURSES OF INSTRUCTION

LANGUAGE COURSES

GER BC 1001x-GER BC 1002y. Elementary Full-Year Course.

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice. — R. Ayre and Marvin Shulman.

Work with video cassettes is required.

No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

4 points. Section 1 M T W Th F 9:00.

Section 2 M T W Th F 12:00.

GER BC 1001y. Elementary Full-Year Course. Part I.

Same as BC 1001x, but given in the Spring Term. — R. Ayre.

4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

M Tu W Th F 12:00.

GER BC 1002x. Elementary Full-Year Course. Part II.

Same as BC 1002y, but given in the Autumn Term. — M. Shulman.

4 points. M Tu W Th F 12:00.

FOR ELEMENTARY READING COURSE SEE GERMAN BC 1007.

GER BC 1203x. Intermediate Course I.

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication. — M. Shulman and R. Ayre.

Prerequisite: BC 1002 or the equivalent.

4 points.

Section 1 M Tu W Th 10:00.

Section 2 M Tu W Th 1:10.

GER BC 1203y. Intermediate Course I.

Same as BC 1203x, but given in the Spring Term. — R. Ayre.

Prerequisite: BC 1002 or the equivalent.

4 points. M Tu W Th 1:10.

GER BC 1204y. Intermediate Course II.

Language study based on literary texts: several short stories, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice. — S. Berka and M. Shulman.

Prerequisite: BC 1203 or the equivalent.

3 points.

Section 1 M W F 10:00.

Section 2 M W F 1:10.

GER BC 1204x. Intermediate Course II.

Same as BC 1204y, but given in the Autumn Term. — S. Berka.

Prerequisite: BC 1203 or the equivalent.

3 points. M W F 10:00.

GER BC 3005x. Conversational German.

Intensive oral practice with emphasis on idiomatic usage and cultural allusions in speech patterns. Discussion of items in the German press and radio. Third hour for third point with special assignments. This course and BC 3006 may be taken in reverse sequence. — G. Sakrawa.

2 points. Section 1 M W 10:00.

3 points. Section 2 M W F 10:00.

GER BC 3006y. Advanced German Composition.

Weekly writing assignments; also extended projects. Choice of topics. Designed to improve grammar, syntax, vocabulary and style. This course may be taken before BC 3005x. — S. Berka.

Prerequisite: BC 1204 or the equivalent.
3 points. M W F 10:00.

GER BC 1007x. Elementary German: Intensive Reading.

Comprehension of written German. Extensive reading of simple expository texts, fundamental vocabulary, and the essentials of grammar and syntax. — M. Shulman.

No previous knowledge of German is required. This course is not open to students who have completed German BC 1001-BC 1002.
3 points. Not offered 1990-91.

LITERATURE COURSES

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

GER BC 3011x. Introduction to German Literature and Civilization.

German literature in a historical-cultural context from the late 18th -to the 20th-century. Selected readings from Lessing to Brecht. — S. Berka.

Prerequisite: BC 1204 or the equivalent.
3 points. M W F 11:00. H

GER BC 3014y. German Literature and Culture around the Turn of the 20th-Century.

One of the richest and most diversified periods of cultural life in Germany and Austria. Study of Modernism based on plays, narratives, and poems by Hauptmann, Hofmannsthal, Kaiser, Schnitzler, Mann, Rilke, and Kafka. — S. Berka.

Prerequisite: BC 1204 or the equivalent.
Alternate years.
3 points. Not offered in 1990-91. H

GER BC 3015x. Goethe.

Major works of Goethe in relation to his life and his times: *Werther*, *Iphigenie*, *Wilhelm Meister*, *Faust*, and poems. — G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.

3 points. Tu Th 10:35-11:50. H

GER BC 3016y. The Romantic Movement in Germany 1790-1820.

Theory of Romantic poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time. Movement's impact on scholarship and translation. poetic works by Tieck, Novalis, Hölderlin, Hoffmann, and Eichendorff. — G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.
3 points. Next offered in 1991-92. H

GER BC 3018x. Schiller and Kleist.

A study of Schiller's aesthetic writings, of Kleist's novellas, and of major dramatic works by both authors in the context of the intellectual and political climate of their times. — G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.
3 points. Not offered in 1990-91. H

GER BC 3025y. The Age of the Bourgeoisie in German Literature.

Drama, poetry, and prose by Heine, Grillparzer, Büchner, Wagner, Keller, Storm, Stifter, and Fontane. — S. Berka.

Prerequisite: BC 1204 or the equivalent.
Offered every three years.
3 points. M W F 11:00. H

GER BC 3026y. Post-War German Theatre.

Brecht and well-known playwrights of the post-war period: Weiss, Frisch, Dürrenmatt, Strauss, and others. — S. Berka.

Prerequisite: BC 1204 or the equivalent.
Alternate years.
3 points. Not offered in 1990-91. H

GER BC 3028x. Contemporary German Prose Fiction.

Works by writers from West and East Germany, Austria and Switzerland: Böll, Bachmann, Frisch, Grass, Christa Wolf, Handke, Walser, and others. Analyses concentrate on the effectiveness of fictional writings in exploring problems of individual and general concern. — S. Berka.

Prerequisite: BC 1204 or the equivalent.
Alternate years.
3 points. Not offered in 1990-91. H

German

GER BC 3045x. Literary Traditions in the Time of the Medieval Empire.

Introduction to the feudal age and to German literature from 1200 to about 1400: *Parzival*, *Tristan*, and *Das Nibelungenlied*. Texts used for reading are in modern German. — R. Ayre.

Prerequisite: BC 1204 or the equivalent.

Offered every three years.

3 points. Not offered in 1990-91.

H

GER BC 3046y. German Literature in the 18th-Century.

An introduction to the Enlightenment and Storm and Stress through works by Lessing, Wieland, Herder, the young Goethe, and the young Schiller. — G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.

Alternate years.

3 points. Not offered in 1990-91.

H

GER BC 3061x. Seminar. The Portrayal of Women in Keller, Hebbel, and Fontane.

A critical study of male/female relationships in selected works.—G. Sakrawa.

Prerequisite: Major status or permission of the instructor.

4 points. Not offered in 1990-91.

H

GER BC 3062y. Senior Essay.

The topic must be related to one of the literature courses that the student has completed in the department. — G. Sakrawa.

Open to senior majors. permission of the instructor required.

3 points. Regular consultations with the instructor at hours to be arranged.



History

Office: 418 Lehman

Telephone: 854-2159

Professors

Robert A. McCaughey (Dean of the Faculty), Suzanne F. Wemple

Associate Professors

Mark C. Carnes, William C. McNeil (Chair), Rosalind N. Rosenberg¹, Nancy Woloch (Adjunct)

Assistant Professors

Beth Bailey, David Farber, Richard J. Lufrano, Herbert E. Sloan, Deborah Valenze

Other officers of the University offering courses in History:

Professors

Roger S. Bagnall, Richard Bulliet, Richard Bushman, Caroline Bynum, David Canadine, Lawrence A. Cremin, Istvan Deak, Ainslie Embree, Barbara Fields, Eric Foner, John A. Garraty, Nina Garsoian, Carol Gluck, Arthur Goren, Henry F. Graff, Leopold H. Haimson, William V. Harris, Kenneth Jackson, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis, Walter Metzger, Robert O. Paxton, Eugene Rice, William R. Roff, David J. Rothman, James P. Shenton, J.W. Smit, Michael Stanislawski, Nancy Leys Stepan, Fritz Stern, Alden T. Vaughan, Isser Woloch, Richard Wortman, Marcia Wright, Yosef H. Yerushalmi

Associate Professors

Elizabeth Blackmar, Joshua Freeman, Michael Hanagan, Rhoads Murphy, Marc Van De Mieroop, Dwight Van Horn, Mark von Hagan, Madeleine Zelin

Assistant Professors

Richard Billows, Olivia Constable, Atina Grossmann, Deborah Levenson-Estrada, Joseph A. Mbembe

¹Absent on leave Autumn Term

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence — quantitative as well as qualitative — from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

- 1000-level introductory lecture courses
- 3000-level advanced lecture courses
- 3400-level seminars
- 3700-level senior research seminars
- 3900-level independent research seminars

Lecture courses are defined more broadly — chronologically, geographically, thematically — than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Autumn 1990 seminars: April 13, 1990. Deadline for applications for Spring 1991 seminars: November 21, 1990. Deadline for applications for Autumn 1991 seminars: April 19, 1991.

History

Students should consult the Columbia College catalogue for full descriptions of Columbia history courses and for regulations concerning enrollment in these courses. Application forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 418 Lehman. Certain Columbia graduate ("G") courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions see the bulletin of the Graduate School of Arts and Sciences.

Students will receive six points of College credit for a score of five and three points of credit for a score of four on the Advanced Placement Examination in American or European history. These credits are not counted toward the History major.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The two principal areas of concentration are European and American history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, Asian, or African history. The eleven required courses must include:

1. Three 1000-level courses (or their equivalent — students with AP credit may substitute a more advanced course)
2. Two seminars
3. The two-semester senior research seminar (HIS BC 3791-2 or HIS 3793-4).

Majors may, with the approval of their advisers, take two of their eleven courses outside the department, provided that such courses are closely related to their concentrations.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30-50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Halfway through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the autumn semester, then complete their research and writing in the spring.

REQUIREMENTS FOR THE MINOR IN HISTORY

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

COURSES OF INSTRUCTION

LECTURES, ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

HIS BC 1003x. The Early Middle Ages: 300 to 1050.

Fusion of Graeco-Roman, Judeo-Christian and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Saxon-Salic empires. — S. Wemple.
3 points. Tu Th 10:35-11:50. S

HIS BC 1004y. The High Middle Ages: 1050-1450.

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings. — S. Wemple.
3 points. Not offered in 1990-91 S

HIS BC 1011x. Introduction to European History: Renaissance to French Revolution.

Political, economic, social, religious, and intellectual history of early modern Europe,

History

including the Renaissance, Reformation, and Counter-Reformation, absolutism, Scientific Revolution, and Enlightenment.—D. Valenze.
3 points. *M W 11:00-12:15.* S

HIS BC 1012y. Introduction to European History: French Revolution to the Present.
Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism and imperialism; 20th-century world wars, the Great Depression and Fascism.—W. McNeil.
3 points. *M W 11:00-12:15.* S

HIS BC 3022y. Work and Wealth in Industrial Britain.
A study of the emergence of the first industrial nation. An examination of the relationship between technological change and social relations, developments in political ideology, the creation of a working class, the changing status of women and literary responses to industrialization.—D. Valenze.
3 points. *M W 1:10-2:25.* S

HIS W 4275x. European International Relations, 1914 to the Present.
From the outbreak of the First World War to the Cold War and beyond, with a focus on the relationship between internal social, economic and political structures of nation states as they influence the formation of foreign policy. — W. McNeil.
3 points. *Not offered in 1990-91.* S

HIS W 1001y. Ancient History of Egypt and Israel.
M. Van De Mieroop.
3 points. *M W 11:00-12:15.* S

HIS W 1002x. Ancient History of Mesopotamia and Asia Minor.
M. Van De Mieroop.
3 points. *M W 11:00-12:15.* S

HIS W1005x. Survey of Ancient Greek History, 800-146 B.C.
R. Billows.
3 points. *Tu Th 1:10-2:25.* S

HIS W1006y. The Ancient World: The Roman Period.
W. Harris.
3 points. *Tu Th 4:10-5:25.* S

HIS W 1150x. Introduction to European History: Renaissance to the Enlightenment.
E. Rice.
3 points. *M W 6:10-7:00, plus 1 hour to be arranged.* S

HIS W 1151y. Introduction to the History of Europe: From the Enlightenment to the Present.
I. Woloch.
3 points. *M W 6:10-7:00, plus 1 hour to be arranged.* S

HIS W 3162y. Origins of Capitalism.
J.W. Smit.
3 points. *Hours to be arranged.* S

HIS W3685y. Introduction to the History of Homosexuality in the West.
E. Rice.
3 points. *M W F 10:00-10:50.* S

HIS W3545x. Modern Jewish History I: The Era of Emancipation (1790-1870).
Y. Yerushalmi.
3 points. *M W 11:00-12:15.* S

HIS W 3546y. Modern Jewish History II: From Emancipation to National Sovereignty.
Y. Yerushalmi.
3 points. *M W 11:00-12:15.* S

HIS W3154y. France since 1848.
R. Paxton.
3 points. *M W 4:10-5:25.* S

HIS W 3205x. European Politics and Society, 1870-1919.
A. Grossman.
3 points. *M W 4:10-5:25.* S

HIS W 3206y. European Politics and Society since 1919.
I. Deak.
3 points. *M W 6:10-7:25.* S

HIS W3210x. Biology and Society since the 18th Century.
N. Stepan.
3 points. *M W 6:10-7:25.* S

HIS W 3361x. History of the Soviet Union.
M. Von Hagen.
3 points. *Tu Th 2:40-3:55.* S

History

SEMINARS, ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

History HIS BC 3406x. The History of Women in the Middle Ages.

Origins of the legal and social position of women in medieval society as reflected in patristic writings, and Roman and Germanic codes. Contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine and literature. — S. Wemple. *Prerequisite: BC 1003 or BC 1004 or the equivalent. Permission of the instructor required.* 4 points. Th 2:10-4:00. S

HIS BC 3409x. Monasticism in the Middle Ages.

The emergence of monasticism in the late third century; its survival and spread as spiritual, economic, educational, and political institution to the fifteenth century.—S. Wemple. *Enrollment limited. Preregistration required.* 4 points. Tu 2:10-4:00. S

HIS BC 3410y. The City in Europe.

A social history of the city in Europe from early modern times; the economic, political and intellectual forces influencing the growth of Paris, London, Vienna and other urban centers.—D. Valenze. *Enrollment limited. Preregistration required.* 4 points. Tu 12:00-1:50. S

HIS BC 3427x. Women, Class and Culture.

The experience of European Women with an emphasis on social class and culture. Topics include women in 18th century rural economies, women in the French Revolution, the impact of industrialization on women's work, Victorian womanhood and its contradictions, the growth of feminism and the impact of World War I. — D. Valenze. *Enrollment limited. Preregistration required.* 4 points. Tu 11:00-12:50. S

HIS BC 3439y. The Great War and the Modern World.

The course and impact of the First World War on modern society. Topics will include the social, economic, political, cultural and military transformation brought by the war

with emphasis on Europe and the United States. — W. McNeil. *Enrollment limited. Preregistration required.* 4 points. M 2:10-4:00. S

HIS W 3542y. The Land of Three Religions: Spain in the Middle Ages.

O. Constable. 4 points. Tu 2:10-4:00. S

HIS BC 3791x-3792y. Senior Research Seminar in European History.

Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details. — Staff. 4 points. Tu 4:10-6:00.

HIS W3579y. Greek Historiography.

R. Billows. 4 points. Tu 4:10-6:00. S

HIS W 3792x. Gender, Race and Science.

N. Stepan. 4 points. M 4:10-6:00. S

HIS W 3993x. Protest and Social Revolution in Modern Europe.

M. Hanagan. 4 points. W 2:10-4:00. S

HIS W 3853x. Fascism.

R. Paxton. 4 points. W 11:00-12:50. S

HIS W 3871x. Social Origins of National Socialism: Germany 1914-1945.

A. Grossman. 4 points. Tu 2:10-4:00. S

HIS W 3965x. The Culture and Institutions of Old Russia.

R. Wortman. 4 points. Th 4:10-6:00. S

HIS W 3988y. Origins of Human and Social Sciences (Hobbes to Marx).

W. Clark. 4 points. Tu 2:10-4:00. S

ANH V 3910y. Colloquium on Peasant Societies and Their Transformation: China and France.

I. Woloch. 4 points. Tu 11:00-12:50. S

LECTURES, AMERICAN HISTORY

HIS BC 1051x. Survey of American Civilization to the Civil War.

The major theological and social concerns of 17th-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war. — H. Sloan.

3 points. Tu Th 10:35-11:50. S

HIS BC 1052y. Survey of American Civilization since the Civil War.

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post-World War II developments. — R. Rosenberg.

3 points. Tu Th 10:35-11:50. S

HIS BC 3052y. The Constitution in Historical Perspective.

The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in republicanism; states rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; the challenge of civil rights. — H. Sloan.

3 points. Tu Th 2:40-3:55. S

HIS BC 3056x. The American Civil Rights Movement.

An overview of the struggles made by some Americans in the 20th century to gain the civil rights they had historically been denied by other Americans. The focus will be on African-Americans until the latter part of the course when a broad range of civil rights movements will be examined. — D. Farber.

3 points. M W 2:40-3:55. S

HIS BC 3067x. America since 1945.

A consideration of the cold war, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs. — M. Carnes.

3 points. M W 11:00-12:15. S

HIS BC 3071x. American Cultural History.

Traces the development of modern American culture, analyzing the "problem" of democracy in a mass society. Topics will include victorianism, modernism, postmodernism, technology, mass media, art, advertising, cultures of resistance and dissent and the emergence of "lifestyle". — B. Bailey.

3 points. M W 1:10-2:25. S

HIS BC 3074y. History of Sexuality.

An introduction to sexual behavior and ideology in America from the colonial era to the present, with emphasis on the historical construction of sexuality. Topics include body culture and beauty, attempts to control sex and to define appropriate sexual behaviors, changing gender roles and sexuality, sex and rebellion, sex and utopias. — B. Bailey.

3 points. M W 11:00-12:15. S

HIS BC 3082y. American Women in the 20th Century.

A consideration of women's changing place in modern America; the "family claim" women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; the new feminism. — R. Rosenberg.

3 points. Tu Th 4:10-5:25. S

HIS BC 3085y. America in the 1960's.

From myth and memory to history: Vietnam, riots, liberalism, backlash, street heat, TV, LSD, anomie, Black Power, feminism. Other topics will include Sex, Drugs, Rock'n Roll. The 60's will be re-opened for serious inspection. — D. Farber.

3 points. M W 1:10-2:25. S

HIS W 1109x. Main Currents in American History, 1492-1877.

J. Shenton.

3 points. Tu Th 6:10-7:25, plus 1 hour to be arranged. S

HIS W 1110y. Main Currents in American History since 1877.

E. Blackmar.

3 points. Plus 1 hour to be arranged. S

HIS W 3651y. The United States Since 1945.

J. Freeman.

3 points. M W 1:10-2:25. S

History

HIS W 3652x. American Labor in the 20th Century.

J. Freeman.
3 points. M W 11:00-12:15. S

HIS W 3648x. History of the South.

B. Fields.
3 points. Tu Th 11:00-12:15. S

HIS W 3115x. History of Women in America, 1700-1900.

E. Blackmar.
3 points. M W 4:10-5:30. S

HIS W 3133x-3134y. U.S. History in the 20th Century.

W. Metzger.
3 points. Tu Th 1:10-2:25. S

HIS W 3640y. American Social History.

E. Blackmar.
3 points. M W 4:10-5:30. S

HIS W 3121x. America in the Era of Slavery and Jacksonian Democracy.

E. Foner.
3 points. M W 11:00-12:15. S

HIS W 3122y. America in the Era of Civil War and Reconstruction.

E. Foner.
3 points. M W 11:00-12:15. S

HIS W 3125y. American Society from the Revolution to Jackson.

R. Bushman.
3 points. Tu Th 2:10-4:00. S

HIS W 3002y. 20th Century African-American History.

H. Lynch.
3 points. Hours to be arranged. S

SEMINARS, AMERICAN HISTORY

HIS BC 3444y. Bourgeois America.

The evolution and diffusion of bourgeois values and institutions from 1840 to 1900; evangelical Protestantism, women and Victorian gender roles; industrialization, urbanization and the role of labor; theologians, intellectuals and the path to empire. — M. Carnes.
Prerequisite: Permission of the instructor. Enrollment limited to 15.
4 points. Not offered in 1990-91. S

HIS BC 3450y. History of Childhood in America.

An examination of childhood (including adolescence) in various contexts: Puritan New England, slave plantations, nineteenth-century middle class families, the 1960s. Emphasis on primary sources, including children's literature and child-rearing manuals, and on the role of church, school, workplace, and peers in the process of acculturation. — M. Carnes.
Enrollment limited. Permission of the instructor required.
4 points. W 2:10-4:00. S

HIS BC 3452x. Origins of the Constitution.

An examination of the creation of the Constitution: consequences of independence; ideological foundations; the Articles of Confederation and the Critical Period; the nationalist movement and the Convention; antifederalism and ratification; the Bill of Rights. Readings from selected secondary and primary sources, including *The Federalist*.—H. Sloan.
4 points. Not offered in 1990-91. S

HIS BC 3464x. Higher Learning in America.

An examination of the history of American colleges and universities from the colonies to the present; special emphasis on the evolving relationship between academic institutions and the political and social orders.—R. McCaughey.
Prerequisite: HIS BC 1051-1052 or equivalent. Enrollment limited. Preregistration required.
4 points. W 4:10-6:00. S

HIS BC 3478y. The New Deal and the Modern State.

A seminar in two parts. First, a focused look at the premises and practices of New Deal Liberalism. And then, a consideration of the kind of state the New Deal and its supporters wrought. — D. Farber.
Enrollment limited. Preregistration required.
4 points. Tu 2:10-4:00. S

ASH BC 3401x. Approaches to American Cultural History.

Colloquium — see American Studies for description. — B. Bailey.
Enrollment limited. Preregistration required.
4 points. Tu 6:10-8:00. S

History

HIS BC 3484y. American Intellectual History since the Civil War.

A consideration of the history of certain major ideas (Darwinism, Progressivism, Marxism, Liberalism, neo-Conservatism) in their American context, of changes in the social structure of intellectual activity, and of the relationship of intellectuals to American society, from 1865 to the present. — R. McCaughey.

Enrollment limited. Preregistration required.
4 points. Not offered in 1990-91. S

HIS BC 3489x. The Fourteenth Amendment and Its Uses.

The role of the 14th Amendment in shaping the modern American Constitution: theories of judicial review; the rise and fall of economic due process; the creation of civil liberties; the civil rights revolution; the end of states' rights. — H. Sloan.

Enrollment limited. Preregistration required.
4 points. M 2:10-4:00. S

HIS BC 3460x. Progressive Women, 1890-1920.

An exploration of women's activism in public life and social reform. Topics include separatism, institution-founding, the college experience, women's professions, the settlement movement, trade unionism, suffragism, pre-war radicalism, social feminism, and utopian feminism.—N. Woloch.

Enrollment limited. Preregistration required.
4 points M 11:00-12:50. S

HIS BC 3461y. Education in American History.

Seminar — see Education for description.—N. Woloch.

Enrollment limited. Preregistration required.
4 points. Tu 2:10-4:00. S

HIS BC 3793x-HIS BC 3794y. Senior Research Seminar in American History.

Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details. — Staff.

Open to senior majors; others by permission of instructor.

4 points. W 4:10-6:00.

HIS W 3946y. Twentieth Century Home Life.

E. Blackmar.

4 points. W 11:00-1:00. S

HIS W 3832x. Military History and Policy. K. Jackson.

4 points. Tu 2:10-4:00. S

HIS W 3901x. Recent American Social Thought.

W. Metzger.

4 points. Th 4:10-6:00. S

HIS W 3886x. The United States During the 1960s.

J. Freeman.

4 points. Th 2:10-4:00. S

HIS W 3923y. The Coming of the Civil War.

E. Foner.

4 points. M 4:10-6:00. S

HIS W 3896x. Foundations of the American Republic.

R. Bushman.

4 points. Tu 2:10-4:00. S

HIS W 3938y. Black Urban America.

H. Lynch.

4 points. Tu 4:10-6:00. S

LECTURES, ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY

HIS BC 1021x. Late Imperial China, 1550-1900.

Late Ming world and mid-seventeenth century crisis; the rise of Manchus and the High Qing; nineteenth century beset by explosive population growth, imperialism encroachment, and mid-century rebellion. Emphasis on trends such as commercialization of economy, urbanization, and rising literacy rates which transcend change in dynastic house.—R. Lufrano.

3 points. M W 2:40-3:55. S

HIS BC 1022y. China in the Twentieth Century.

Attempts at state formation and the rise of the revolutionary parties; foreign power intervention, economic crisis and development, and the rise of new social classes; the changing status of women and intellectual and cultural change. Covers period from 1900 to 1978.—R. Lufrano.

3 points. M W 2:40-3:55. S

HIS W 3005x. Main Currents in African History from Early Times to 1870.

M. Wright.

3 points. Tu Th 2:40-3:55. S

History

Oriental Civilizations-East Asian OEA V 3002y. Introduction to Major Topics in Asian Civilization: East Asia.

R. Lufrano, et al.

4 points. Tu Th 10:00-11:50. S

History-Japanese HIJ W 3600x. World War II in American and Japanese History.

C. Gluck.

3 points. M W 11:00-12:15. S

History-Japanese HIJ V 3613y. Buildings and Cities in Japanese History.

H. Smith.

3 points. Tu Th 9:10-10:25. S

SEMINARS, ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY

HIS BC 3430x The Cultural Revolution in China.

Origins, history, and aftermath of one of the pivotal events in twentieth century Chinese history. Emphasis on conditions in the People's Republic before 1966, power struggles among the top leaders, the participation of various social groups, the Red Guard movement, and the role of the army.—R. Lufrano. Enrollment limited. Preregistration required.

4 points. Th 4:10-6:00. S

HIS W 3950x. World War II.

C. Gluck.

4 points. W 11:10-1:00. S

HIS W 3931y. Slavery and Race Relations in the Americas.

H. Klein.

4 points. Th 2:10-4:00. S

HIS W 3948x. Caribbean History in the 20th Century.

H. Lynch.

4 points. Tu 4:10-6:00. S

HIS W 3780y. The Construction and Deconstruction of Colonial Power.

A. Mbembe.

4 points. Hours to be arranged. S

HIS BC 3799x, y. Independent Study.

Staff.

4 points.

OTHER OFFERINGS

Full description of courses offered by Barnard faculty of interest to students of history

can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered in Paris. Additional information about the programs is available in 412 Lewisohn Hall.

History H 2503q. Introduction to French Civilization and Culture.

For students in the Intensive French Language Program.

Contemporary French society in a historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French.—D. Hemery.

3 points.

History-Political Science H 3240q. The State and Political Life in France from the Revolution to the Present.

The continuity and discontinuity of French political life during the past two hundred years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed.—C. Batsch and F. Bock.

3 points.

S

History-Political Science H 3260y. The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.

For students in the French Studies and the Humanities and Social Sciences Program.

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis: the Dreyfus case, the thirties, World War II, the Algerian War, etc.—J. Sirinelli.

3 points.

S

History

History-Political Science H 3820y. The Political Culture of Revolution in France: 1789 to the Present; Seminar.

The on-going opposition between revolution and counter-revolution in France since 1789. The relevance of these two traditions for contemporary French political culture.—F. Bock.

Prerequisite: History-Political Science H 3240 or the equivalent.

4 points.

S

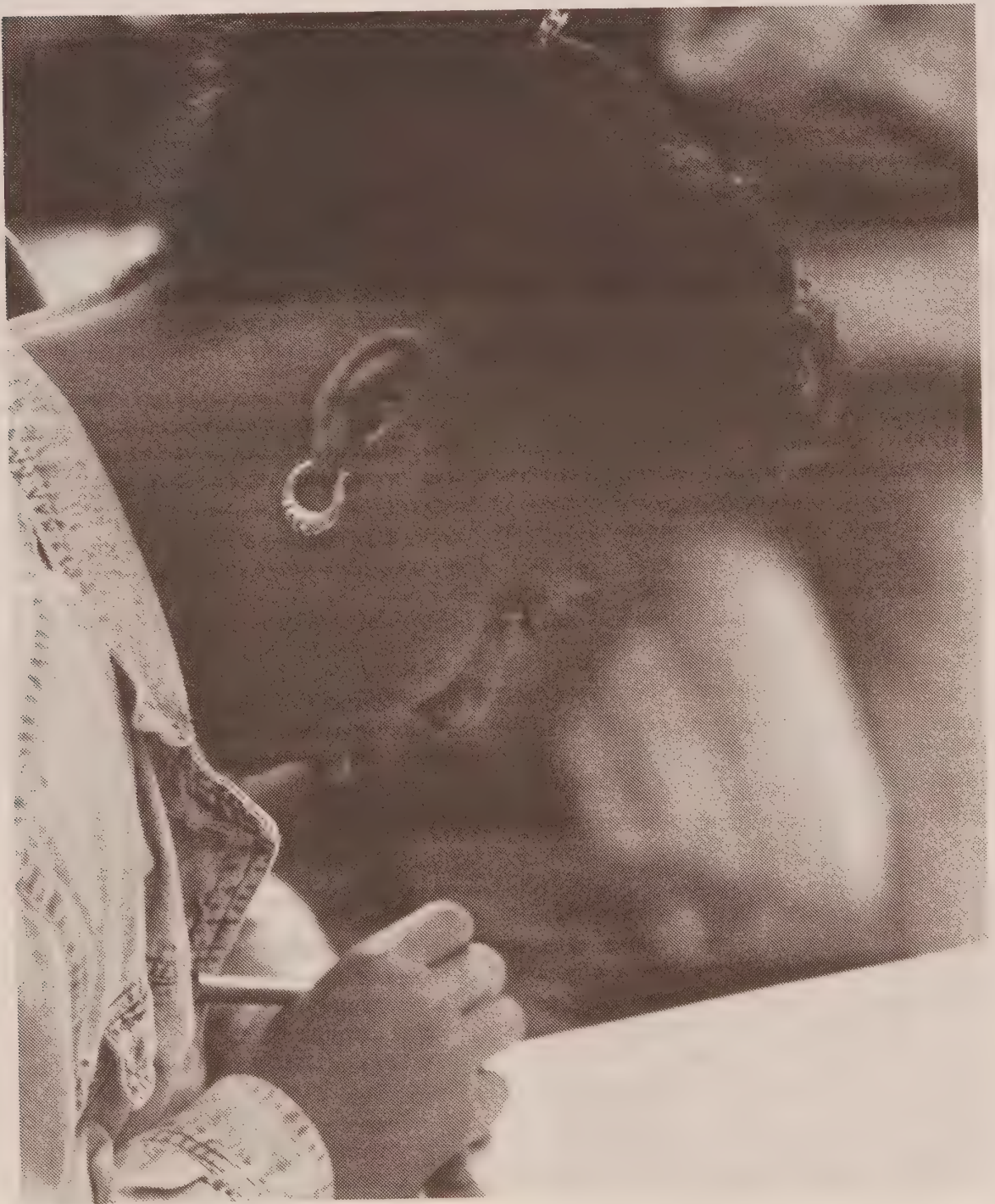
History H 3460x. Intellectual and Social History of Paris.

For students in the Intensive French Language Program and the Art History Program.

A historical and architectural introduction from the city's origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world.—Jean-Marc Leri.

3 points.

S



Studies in the Humanities

Office: 314 and 321 Milbank Hall

Telephone: 854-2052/5416/8312/5417

Studies in the Humanities is coordinated by a Committee from various departments in the Humanities:

Professor of French

Serge Gavronsky (Co-chairman)

Professor of English

Remington Patterson

Assistant Professor of Italian

Antonella Ansani

Professor of Oriental Studies

Barbara Stoler Miller (Co-chairman)

Professor of Philosophy

Mary Mothersill

Professor of Russian

Richard Gustafson

The offerings in Studies in the Humanities are designed to permit students to broaden their knowledge of humanistic traditions while complementing and enriching the specialization inherent in a major program. Readings in the Humanities courses, as well as Humanities C 1001, C 1002, may be used to fulfill distribution requirements.

Students may neither major nor minor in the Humanities.

COURSES OF INSTRUCTION

HUM V 3003x-V 3004y. Readings in European and American Literature and Philosophy of the 19th and 20th Centuries.

New visions of self, society, and God. Passion, anxiety, and faith. The reconstruction of moral, aesthetic, and cultural values. First-semester texts include: Wordsworth, Hegel, Whitman, Balzac, Dickens, Kierkegaard, Dostoevsky, Dickinson, Flaubert, Ibsen, Nietzsche. Second-semester texts include: Freud, Proust, Joyce, Kafka, Husserl, Woolf, Colette, Camus, Hemingway, Solzhenitsyn, and Márquez. — x: R. Gustafson; y: M. Jaanus.

Prerequisite: Grade of B or better in HUM C 1001-1002 or permission of the instructor.

3 points. M W 1:10-2:25. y: Not offered in 1990-91. H

HUM BC 3201x. Colloquium in the Humanities: Tragedy and Transcendence: Greek and Sanskrit Drama.

Analysis of a group of Greek and Sanskrit dramas in terms of comparative themes, mythology, and poetics. Special emphasis on issues of recognition and transformation through the experience of drama. Works of Sophocles, Euripides, Aeschylus, Menander, Aristotle, Kalidasa, Bhasa, Bhavabhuti, Sudaka, Bhatta Narayana, Bharata, and Dhananjaya. — B. Miller and H. Bacon.

4 points. Not offered in 1990-91.

HUM BC 3203y. Colloquium in the Humanities: Emotion and Action: A Comparative Study of Eastern and Western Traditions.

An analysis of representative Chinese and Western philosophical texts relating to the nature and expression of emotion and the role of feeling in moral conduct and the good life. — M. Mothersill and I. Bloom. Sophomore standing.

4 points. Not offered in 1990-91. H

HUM BC 3498x. Seminar: Seen and Seeing — From Psychology to Ideology.

Modes of perceptions and the way they determine identity of self and other. Categories will include oneself as other, women in men's eyes, blacks seen and seeing. Works will include Ovid and Freud, Flaubert and Tanizaki, Fanon, Césaire and Sartre. — S. Gavronsky.

Enrollment by permission of the instructor.

4 points. Not offered in 1990-91.

HUM BC 3498x. Seminar: Myths, Metaphors, and Narratives of Travel.

Language of intercultural encounters explored through Asian and Western literary forms of epic, story, and novel. Readings include the *Odyssey*, *Ramayana*, *1001 Nights*, *Travels of Marco Polo*, *A Passage to India*, *Heart of Darkness*, *Orlando*, *Moby Dick*. — B. Miller.

Enrollment by permission of the instructor.

Studies in the Humanities

4 points. Not offered in 1990-91. H

The following courses represent a selection of departmental offerings that focus on the complex ways in which humanistic activity involves translations of ideas, emotions, and forms across barriers of time, space, and language.

French FRE BC 3041x. Twentieth Century French Thought.

Interplay between ideology and literature in some of the major movements of the century including Surrealism, Existentialism, Structuralism, Action française and the Catholic Tradition. Writers include Breton, Aragon, Sartre, Barthes, Althusser, Maurras, La Rochelle, Bernanos and Céline. — S. Gavronsky.

Prerequisite: BC 3021, - BC 3022, or the permission of the instructor.

3 points. T Th 10:35-11:50. H

French FRE BC 3042y. Twentieth Century French Poetry.

A study of the relationship between contemporary autobiographical theory and questions raised in the poetic transcription of self. Topics include the interplay between author and narrator, principles of poetic transformation, function of rhetoric in redefining reality, role of intertextuality in modifying personal experience. Poets to be read include Cendrars, Apollinaire, Aragon, Césaire, Michaux, Saint-John Perse, Morand and J. Roubaud. — S. Gavronsky.

Prerequisite: BC 3021, 3022, 3023, 3024 or permission of the instructor.

3 points. Not offered in 1990-91.

Linguistics LIN V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both process of translation and the comparison of original and translated version of a text. Texts include literary, Biblical, and journalistic material in bi-or multi-lingual versions, and students will use materials in languages familiar to them for analysis and translation.— J. Malone.

Prerequisite: V 1101.

Enrollment limited to 25 students. Pre-registration required.

3 points. Not offered in 1990-91. S

Linguistics LIN V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g., by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.—J. Malone.

Prerequisite: V 1101.

Enrollment limited to 25 students. Pre-registration required.

3 points. Not offered in 1990-91. S

Oriental Humanities ORH V 3399x, 3400y. Colloquium on Major Texts.

Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese and Japanese origin, including (V 3399x) the *Koran*, Islamic philosophy, Sufi poetry, the Upanishads, Buddhist sutras, the *Bhagavad Gita*; Indian epics and drama, Gandhi's *Autobiography*; (V 3400y) the *Analects* of Confucius, *Mencius*, *Lao Tzu*, the *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, and Zen literature, Noh plays, Chinese and Japanese poetry. —R. Abe, P. Anderer, I. Bloom, T. deBary, B. Miller, J. Russell, E. Yarshater, and staff.

Prerequisite: Two courses from among literature, philosophy, religion and humanities, or permission of the instructor.

4 points. x: Secs. 1,2 M 4:10-6:00.

Sec. 3 Tu 4:10-6:00.

Sec. 4 W 4:10-6:00.

y: Sec. 1, 2 M 4:10-6:00. H

Oriental Humanities ORH V 3200x. Oriental Encounters.

The writer's experience of classics of India, and the Middle East viewed through the perceptions of Emerson, Thoreau, Whitman, Melville, Yeats, Joyce, Eliot, Kerouac, and Ginsberg. Readings include the *Bhagavad Gita*, the Upanishads, Buddhist dialogues, the *Arabian Nights*, and other texts relevant to the works of these writers.—B. Miller.

3 points. Tu 2:10-4:00, plus conference hour to be arranged. H

Philosophy PHI V 3803y. The Concept of Beauty.

Introduction to aesthetics as an attempt to develop a systematic theory of criticism. Theory is tested against critical findings in fields

Studies in the Humanities

of music, literature, dance, and the visual arts; readings from classical and contemporary sources.—M. Mothersill.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15.

H

Philosophy PHI V 3850x. Concept of Literature.

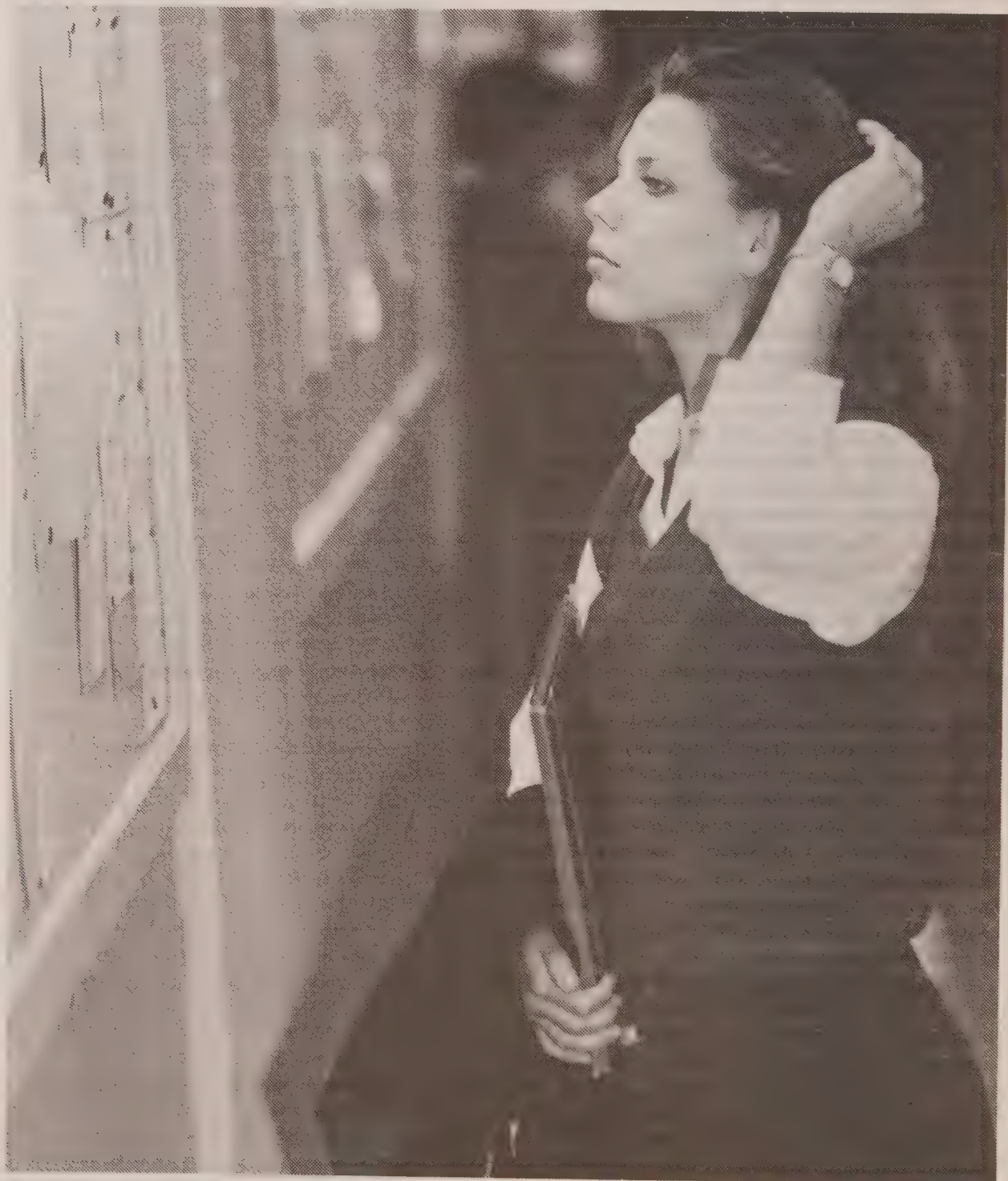
A study of the philosophical problems connected with truth and meaning in the literary

arts, especially poetry. The focus will be on discoveries made by close readings, rhetorical analysis and deconstruction. Selected readings from Coleridge, Kierkegaard, Heidegger, Richards, Empson, Wimsatt, De Man, Hollander, and others.—R. Tragesser.

Prerequisite: One philosophy course or permission of the instructor.

3 points. Not offered in 1990-91.

H



Italian

Office: 206 Milbank Hall

Telephone: 854-5418, 3577

Assistant Professor
Antonella Ansani

Visiting Assistant Professor
Daniella Noè

Other officers of the University offering courses in Italian:

Professors
Olga Ragusa, Luciano Rebay

Assistant Professors
Jared Becker, JoAnn Cavallo

Lecturers
Margherita Repetto Alaia, Mario Bellati, Giuseppe Trapanese

Special Lecuturer
Tibor Wlassics

For organizational purposes faculty teaching Italian language and literature courses will be included in the Department of German, Italian, and Linguistics.

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools — Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have had some Italian, or who have a good knowledge of French or Spanish, but do not feel their background is strong enough for the intermediate course, the comprehensive elementary and intermediate course is recommended as the best way to review what they already know and rapidly proceed beyond it. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and should be attractive to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian office is 206 Milbank Hall, and the Columbia department is housed in the Casa Italiana. The Center for Italian Studies sponsors a program of lectures, concerts, poetry recitations, films. and informal gatherings, which will enrich the learning experience of the student and offer opportunities for meeting distinguished Italian and Italian-American visitors to the University.

Graduate courses are open to qualified students upon consultation with the chair.

REQUIREMENTS FOR THE MAJOR

The courses in Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible.

The following courses are required unless advanced standing is attained by the departmental achievement test or by the Advanced Placement examination:

Italian V 1101-V 1102	<i>Elementary Full-Year Course</i>
Italian V 1201-V 1202	<i>Intermediate Course</i>
or	
Italian V 1301-V 1302	<i>Comprehensive Elementary and Intermediate Course:</i>

Italian

Ten courses are required for the major including:

Italian V 3333-V 3334	<i>Introduction to Italian Literature</i>
Italian V 3335-V 3336	<i>Italian Written and Oral Style</i>
Italian V 3993-V 3994	<i>Seminar in Italian Literature</i>

plus at least 12 more points in Italian courses numbered above Italian V 1302.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor to be selected from courses including and numbered above V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with Italian V 1101-V 1102 and V 1201-V 1202 (or their equivalents) or with Italian V 1301-V 1302 (with permission of the department), followed by a one-year course in Italian literature. Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard, must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period in 610 Casa Italiana.

COURSES OF INSTRUCTION

ITA V 1101x-V 1102y. Elementary Full-Year Course.

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed. —A. Ansani, D. Noè and associates.

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period.

4 points. Sections: 1, 2 M Tu W Th 9:00.

Sections: 3, 4, 5, 6, M Tu W Th 12:00.

ITA F 1101x-F 1102y. Elementary Full-Year Course.

R. Diaconescu-Blumenfeld and associate.

4 points.

Sections 1, 2 Tu Th 6:10-8:00.

ITA F 1102x-F 1101y. Elementary Full-Year Course.

R. Diaconescu-Blumenfeld and associate.

4 points.

Section 1, 2 M W F 1:10-2:25.

ITA W 1111x, W 1112y. Elementary Conversation.

M. Bellati and instructor to be announced.

Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.

2 points.

Section 1 Tu Th 1:10-2:25.

Section 2 Tu Th 4:10-5:25.

ITA V 1201x, V 1202y. Intermediate Course.

Review of the essentials of grammar; intensive and extensive reading, particularly from

contemporary authors; translation, composition, and practice in conversation. — P. Carù and associates.

Prerequisite: V 1101-V 1102 or the equivalent.

NOTE: Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period.

4 points.

Section 1 M Tu W Th 9:00.

Section 2,3 M Tu W Th 12:00.

ITA F 1201x, F 1202y. Intermediate Course.

G. Trapanese.

Prerequisite: F 1101-F 1102 or the equivalent.

4 points. M W 6:10-8:00.

ITA W 1221x, W 1222y. Intermediate Conversation.

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports. — M. Bellati.

Prerequisite: Italian W 1112 or sufficient fluency to satisfy the instructor.

2 points. Tu Th 4:10-5:25.

ITA V 1301x, V 1302y. Comprehensive Elementary and Intermediate Course.

With permission of the chair, this course may be applied toward the fulfillment of the language requirement provided it is followed by a one-year course in Italian Literature.

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of a full year's work in elementary and intermediate Italian grammar with stress on reading, writing, and conversing.

4 points.

Section 1 M Tu W Th 11:00-11:50. Instructor to be announced.

Section 2 M W F 4:10-5:25. G. Trapanese.

ITA W 1311x, 1312y. Advanced

Conversation.

Practice in the spoken language through assigned topics on contemporary Italian culture. Conversation courses may not be used to satisfy the language requirement.—M. Bellati.

Prerequisite: ITA W 1222 or permission of instructor.

2 points. Tu Th 2:40-3:55.

ITA V 3335x, V 3336y. Italian Written and Oral Style.

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. — M. Alaia.

Prerequisite: two years of college language or the equivalent.

3 points. Tu Th 4:10-5:25.

LITERATURE COURSES IN ITALIAN

For non-majors, the literature courses listed below will count toward the distribution requirement.

ITA V 3333x, V 3334y. Introduction to Italian Literature. Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature. — V 3333: L. Rebay.; V 3334: A. Ansani.

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. M W 2:40-3:55. H

ITA V 3449y. Modern Italian Literature.

Nineteenth-and twentieth-century prose and poetry.—L. Rebay.

Prerequisite: V/F 1202 or the equivalent.

3 points. M W 1:10-2:25. H

ITA V 3468y. Italian Poetry from the Scuola Siciliana to the Dolce Stil Nuovo.

Development of Italian poetry from its origins to the early part of the 14th century; Guinizelli, Cavalcanti, and Dante; readings, in-depth textual analysis, and class discussions. — L. Rebay.

Prerequisite: V 1201- V 1202 or the equivalent.

3 points. Not offered in 1990-91. H

ITA V 3641x. The Italian Theatre in the Renaissance.

The course will be devoted to the analysis of several major 16th-century Italian plays, concentrating on the comedies, but also examining the tragedy and the *favola pastorale*. Readings will include: Bernardo dovizi da Bibiene, *La calandria*; Machiavelli, *La mandragola*; Ariosto, *Il negromante*; Aretino, *Cortigiana*; Trissino, *Sofonisba* and Tasso, *Amintak*.—A. Ansani.

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. Tu Th 1:10-2:25. H

ITA V 3981y. Dante, La Divina Commedia.

The Divine Comedy, focusing on textual analysis and the appreciation of Dante's masterwork as poetic text. Readings and lectures in Italian; class discussions and written assignments in either Italian or English. — L. Rebay.

Prerequisite: Two years of Italian or the equivalent.

3 points. Not offered in 1990-91. H

ITA V 3993x, V 3994y. Seminar in Italian Literature.

Guidance in research and writing of a critical essay. — J. Becker, J. Cavallo, O. Ragusa, L. Rebay.

Required of majors. Open to other qualified students with permission of the chairman.

3 points. Hours to be arranged. H

Italian

COURSES GIVEN IN ENGLISH

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

ITA V 3196x. Petrarch and Boccaccio.

Analysis of the *Filostrato*, the *Decameron*, and selections from other works by Boccaccio. The origins of humanism and interrelations between Dante, Boccaccio, and Petrarch.—J. A. Cavallo.

3 points. Tu Th 2:10-4:00. H

History-Italian HII V 3197y. Dante's World.

Historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering; major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*; development of visual arts and ideas especially in the painting of Giotto. — S. Wemple.

3 points. Not offered in 1990-91. S

ITA V 3221y. Machiavelli, Castiglione, Ariosto, Tasso.

An analysis of Machiavelli's *Prince* and *Man-dragola*; Castiglione's *Book of the Courtier*; Ariosto's *Orlando Furioso* (selections), and Tasso's *Aminta* and *Gerusalemme Liberata* (selections).

3 points. Not offered in 1990-91. H

ITA V 3223y. Florentine Writers from Dante to Michelangelo.

Interrelations between Dante, Petrarch, and Boccaccio; Lorenzo de Medici and his circle; Machiavelli and Guicciardini; Michelangelo and Cellini.

3 points. Not offered in 1990-91. H

ITA V 3225y. Italian Women Writers: The Humanist Background and the Modern Experience.

Writings and works by women from Humanism and Renaissance to the present studied in conjunction with readings from recent scholarship on women's history and literary criticism. — M. Alaia.

3 points. Tu Th 1:10-2:25. H

ITA V 3440y. Feminism in Italian Literature and Culture.

The development of the Feminist Movement in Italy; its origins to the present. Readings will include works by Aleramo, De Cespedes, Maraini and Vigano; historical and sociological background material. — M. Alaia.

3 points. Not offered in 1990-91. H

ITA V 3469x. Renaissance Humanism: Its Sources, Forms and Legacy.

Essential aspects of the humanistic tradition. Humanistic literature in Europe (1400 to 1500). Forms of humanistic literature, the humanists' concern with Christianity as religion. Humanism and education, politics and visual arts.

3 points. Not offered in 1990-91. H

ITA V 3642y. Studies in Contemporary Italian Arts: Italian Film.

Historical, social, and stylistic analysis within the context of neo-realism — its antecedents and influence on contemporary cinema. Development of the Italian film industry vis-à-vis politics and society. Films by De Sica, Rossellini, Germi, Castellani, Fellini, as well as historical and contemporary works, will be screened. — J. Becker.

3 points. Tu Th 4:10-6:00. \$35 fee to be paid in class. H

ITA V 3895y. An Introduction to Dante's *Divine Comedy: The Inferno*.

A reading in English translations (prose and verse) of Dante's *Inferno*. Class lectures and discussions. Studies in Dante's theology and philosophy, politics and concept of history, style and narrative technique; research in the poem's reflections in English and American literature.—T. Wlassics.

A knowledge of Italian is not required. H
3 points. Tu 4:10-6:00.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

ITA G 4008x. De Sanctis, Croce, Gramsci.

The methods and practice of the three most influential literary critics of post-Risorgimento Italy. Special attention to De Sanctis' writings on realism, Croce's anti-decadent polemics, and Gramsci's concept of a "natural-popular" literature.—J. Becker.

Open to qualified undergraduates with permission of instructor.

3 points. M 4:10-6:00. H

Please see the Graduate School of Arts and Sciences catalogue for a complete listing of courses open to qualified undergraduates with permission of the instructor.

Linguistics

Office: 411f Milbank Hall

Telephone: 854-5363, 3577

Professor

Joseph L. Malone

Other Barnard Officers offering courses listed below:

Professor

Sue Howard Larson (Philosophy)

Associate Professor

Robert Remez (Psychology)

Assistant Professors

Valentin Soto Borges (Spanish), Jan Rabinowitz (Psychology)

Other officers of the University offering courses listed below:

Professors

Robert Austerlitz (Linguistics), Harvey Pitkin (Anthropology)

Associate Professors

Gail Kaiser (Computer Science), Kathleen McKeown (Computer Science)

Assistant Professors

Shaughan Lavine (Philosophy), Mark J. Petrini (Classics)

For organizational purposes faculty teaching Linguistics courses will be included in the Department of German, Italian and Linguistics.

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with Professor Joseph Malone, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 28).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x. Introduction to Linguistics.

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis. —J. Malone.

Enrollment limited to 100 students. Advance sign-up required.

3 points. Tu Th 9:10-10:25.

S

LIN V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar

to them for analysis and translation. — J. Malone.

Prerequisite: V 1101 or permission of the instructor.

Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.

3 points. Not offered in 1990-91.

LIN V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include mono-lingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students. — J. Malone.

Prerequisite: V 1101 or permission of the instructor.

Linguistics

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.

3 points. Not offered in 1990-91. S

LIN V 3414y. Linguistics and the Structure of Texts.

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Text used for illustration and analysis will be in various languages.—J. Malone.

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required, offered in rotation with V 3410 and V 3412.

3 points. Tu Th 9:10-10:25.

Linguistics BC 3502y. Gender Systems.

The structure and function of gender systems and similar linguistic marking networks: systems based on sex (e.g., Spanish, Arabic), animacy (e.g., Ojibwa), shape (e.g., Chinese classifiers). Natural, arbitrary, and emblematic systems. Pronouns, syntax, and semantics; social implications of sex-based marking; measures taken to combat sexist effects.—J. Malone.

Enrollment limited to 25.

Prerequisite: V 1101 or permission of the instructor. Advance sign-up required.

3 points. Tu Th 1:10-2:25.

Linguistics W 4901x. Synchronic and Diachronic Generative Phonology.

The theory and practice of phonology from N. Chomsky's and M. Halle's *The Sound Pattern of English* (1968) and R. King's *Historical Linguistics and Generative Grammar* (1969) through the present. Phonological rules and representations viewed both through time (internal reconstruction, comparative method) and ahistorically. Some consideration of autosegmental, lexical, metrical and grid phonologies.—J. Malone.

Prerequisite: for undergraduates either V1101 or permission of the instructor. Offered in rotation with W 4903.

3 points. Tu Th 10:35-11:50.

Linguistics W 4903x. Semantics and Generative-transformational Syntax.

Contemporary approaches to the relation between linguistic meaning and form, with special emphasis on work within the Chomskian

tradition. Transformational and phrase-structure grammar, X-bar syntax, Government and Binding; interpretive and generative semantics, lexical decomposition, Logical Form.—J. Malone.

Prerequisite: for undergraduates either V 1101 or permission of the instructor. Offered in rotation with W 4901.

3 points. Not offered in 1990-91.

Anthropology ANT V 3033y.

Sociolinguistics.

A. Galin.

3 points. M W 5:40-6:55.

Anthropology ANT V 3034x.

Ethnolinguistics.

A. Galin.

3 points. M W 5:40-6:55.

CSG W 4115x. Programming Languages and Translators, I.

G. Kaiser.

3 points. Tu Th 4:10-5:25.

CSG W 4705y. Natural Language Processing.

K. McKeown.

3 points. Hours to be arranged.

CSG G 4801x. Mathematical Logic.

Instructor to be announced.

3 points. Hours to be arranged.

LAT V 3012x. Lyric Poetry.

L. Lenaghan.

3 points. M W 1:10-2:25.

PHI V 3411x. Formal Logic A.

J. Collins.

3 points. Tu Th 9:10-10:25.

PHI V 3415y. Formal Logic B.

S. Lavine.

3 points. Not offered in 1990-91.

PHI V 3483y. Theory of Meaning.

S. Larson.

3 points. Tu Th 2:40-3:55.

H

PSY BC 2160x. Cognitive Psychology.

J. Rabinowitz.

3 points. Hours to be arranged.

Linguistics

PSY BC 3164y. Perception and Language.
R. Remez.
3 points. Not offered in 1990-91.

PSY W 4132y. Production and Perception of Language.
R. Remez.
3 points. Not offered in 1990-91.



Mathematics

Office: 404 Mathematics Building

Telephone: ZW 854-5331

Professor

Joan S. Birman (Chair)

Associate Professor

David A. Bayer

Assistant Professors

George Zettler¹, Peter Woit

Other officers of the University offering courses in Mathematics:

Professors

Hyman Bass, E. Thomas Farrell², Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet, Troels Jorgensen, Masatake Kuranishi, Boris G. Moishezon¹, Ngaiming Mok¹, John W. Morgan, Duong Hong Phong, Henry Pinkham.

Associate Professor

Robert Friedman

J. F. Ritt Assistant Professors

Huai-Dong Cao, Fred Diamond, Isaac Efrat, Sidney Frankel¹, Joseph N. Gregg, Michael Heumos, Xiao-Song Lin, Franz Maier, Kieran O'Grady, Jonathan Pila, David Rana, Daniel Rockmore, Xiao-Chun Rong, Roberto Silvotti, Ki-Seng Tan, Johan Tysk, Siye Wu.

Visiting Associate Professor

Deane Yang.

¹Absent on leave 1990-91.

²Absent on leave Spring Term

The Mathematics Department offers a wide range of courses, which fall into groups: service courses for students who need to learn the tools of mathematics, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Students interested in Computer Science should consult the program listing of that department, page 98.

General Information

A passing grade on the Basic Math Skills test is required for entry into any of the offerings of the Mathematics Department. Students who fail that test must pass Quantitative Reasoning BC 1001 *Basic Mathematics Skills* before they can be admitted to any mathematics courses.

The pre-calculus offering is W 1003, *College Algebra and Analytic Geometry*.

Mathematics V 1007 *Applied Linear Algebra* and C 1010 *Groups and Symmetries* are appropriate choices for students who are interested in the culture of mathematics, but do not intend to continue with any of the Calculus offerings.

The systematic study of mathematics begins with one of the following three alternative four-term sequences: *Calculus IA, IIA, IIIA, IIIS/IVA* (MAT V 1101, V 1102, V 1205); *Calculus IS, IIS, IIIS/IVA* (MAT V 1105, V 1106, V 1205); *Honors Mathematics I, II, III, IV* (MAT V 1107, V 1108, V 1207, V 1208).

The A-sequence is a standard course in differential and integral calculus. The S-sequence covers the same topics as A, but is taught at a faster pace, so as to allow well-prepared students to cover more rapidly the calculus needed for their studies..

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen,

Mathematics

whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged.

A fourth sequence on the first year level, *Calculus for Economics I, II*, is designed for prospective economics majors.

Students who have passed the advanced placement test for *Calculus AB* with a grade of 5 or *BC* calculus with a grade of 4 or 5 will be allowed to start with *Calculus IIS* and receive 4 points of credit. Those who passed *Calculus AB* with a grade of 4 will have to take a placement test with the Mathematics Department before being allowed to start with *Calculus IIS*. They will receive 4 points of credit only after passing *Calculus IIS*. Normally, a student with advanced placement credit will not be allowed to take the A-sequence Calculus. A student who insists on taking it, will have to start with *Calculus IIA* and receive only 3 points of credit. Students with a grade of 3 or less on the advanced placement test will receive no credit and will have to start with *Calculus IS*.

Students who have special placement problems should go to Room 404 Mathematics to arrange an appointment with a faculty member or the Chair, during Orientation Week.

Two help rooms, one in Mathematics and one in Altschul, will be open all term (hours will be posted on the door) for students seeking individual help and counseling from the instructors and teaching assistants.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the chairman or with the administrative assistant (404 Altschul) to be assigned to a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Students who are interested in an applied mathematics major with an emphasis on application to economics should consult with a faculty member to plan an individual program.

Courses for a major in mathematics: 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S or A* or *Honors MAT, I-IV*; 18 points in mathematics courses numbered above 2000; and 12 points in any combination of mathematics and cognate courses. The courses in mathematics must include *MAT V 3202*, *V 3040-V 3041*, *W 4061-W 4062*, at least one term of *MAT V 3951-V 3952*, and one term to be chosen from the offerings of the department not specifically excluded from satisfying the major requirements. In exceptional cases, the Chair will approve the substitution of certain more advanced courses for those mentioned above. *Courses for a major in applied mathematics:* 44 points (or 43 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S or A* or *Honors Mathematics, I-IV*; 3 points in *MAT V 3202*; 3 points in *MAT W 4061*; 8 points in *APM E 4901-4902* (2 points in the junior year), *APM 4903-4904* (6 points in the senior year); 18 points in electives from the following courses: *MAT V 3030*; *MAT V 3027*; *MAT V 3028*; *MAT V 3007*; *MAT W 4032*; *MAT W 4033*; *MAT W 4063* and *W 4064*; *Statistics—IEOR W 3658*; *APM E 4300*; and others (with the approval of the Applied Mathematics Committee). The electives should include *MAT V 3030* or *MAT V 3027*, *MAT V 3028* or *Statistics—IEOR W 3658*.

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chair.

Mathematics

COURSES OF INSTRUCTION

MAT W 1003x, 1003y. College Algebra and Analytic Geometry.

For students who do not have a firm enough grasp of basic mathematics to begin the study of calculus. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. — Staff.

3 points.

x: Sec. 1 M W F 1:10-2:25.

Sec. 2 Tu Th 9:00-10:55.

Sec. 3 Tu Th 6:10-8:05.

Sec. 4 M W 7:10-9:05.

y: Hours to be arranged.

MAT V 1007x. Applied Linear Algebra.

Topics, especially suitable for the social sciences, include: linear and quadratic equations, systems of linear equations, matrices, linear programming the simplex method, difference equations, applications to economics and finance. — Instructor to be announced.

Prerequisite: High school algebra.

3 points. Tu Th 4:10-5:25.

MAT C 1010y. Groups and symmetry.

An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. — Instructor to be announced.

Prerequisite: Intermediate algebra and trigonometry.

3 points. M W F 9:10-10:25.

MAT V 1101x, 1101y. Calculus IA.

Functions, limits, derivatives; introduction to integrals. — Staff.

Prerequisite: a firm grasp of high school mathematics through trigonometry, or MAT W1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall (hours posted on the door) is for students seeking individual help from the instructors and teaching assistants.

3 points.

x: Sec. 1 M W F 10:00-10:50. P. Woit.

Sec. 2 M W F 10:00-10:50. F. Diamond.

Sec. 3 M W F 11:00-11:50. F. Diamond.

Sec. 4 M W F 11:00-11:50. M. Heumos.

Sec. 5 M W F 1:10-2:25. D. Yang.

Sec. 6 Tu Th 4:10-5:25. F. Maier.

Sec. 7 Tu Th 6:10-7:25. X-C. Rong.

y: Sec. 1 M W F 10:00-10:50. R. Skora.

Sec. 2 M W F 11:00-11:50. R. Skora.

Sec. 3 M W 4:10-5:25. K-S. Tan.

Sec. 4 Tu Th 6:10-7:25. To be announced.

Recit: one hour chosen by student during the first week of classes from a fixed schedule.

MAT V 1102x, y. Calculus IIA.

Methods of integration; applications of the integral: Taylor's Theorem: infinite series.—Staff.

Prerequisite: Course V1101 or the equivalent.

3 points.

x: Sec. 1 M W F 10:00-10:50 X-S. Lin.

Sec. 2 M W F 11:00-11:50. X-S. Lin.

Sec. 3 M W 4:10-5:25. K-S. Tan.

Sec. 4 Tu Th 6:10-7:25. K. O'Grady.

y: Sec. 1 M W F 10:00-10:50. P. Woit.

Sec. 2 M W F 10:00-10:50. F. Diamond.

Sec. 3 M W F 11:00-11:50. F. Diamond.

Sec. 4 M W F 11:00-11:50. M. Heumos.

Sec. 5 M W 1:10-2:25. D. Yang.

Sec. 6 Tu Th 4:10-5:25. F. Maier.

Sec. 7 Tu Th 6:10-7:25. X-C. Rong.

Recit: one hour chosen by the student during the first week of classes from a fixed schedule.

MAT V 1105x. Calculus IS.

Differentiation and integration, applications, transcendental functions, techniques of integration. Lectures: 3 hours; problem session: 1 hour. Students must register for the problem session.

4 points.

Sec. 1 M W F 10:00-10:50. D. Goldfeld.

Sec. 2 M W F 11:00-11:50. D. Rockmore.

Sec. 3 M W 1:10-2:25. D. Phong.

MAT V 1106x, y. Calculus IIS.

Improper integrals, Taylor's formula, infinite series, complex exponential, vectors in \mathbb{R}^2 and \mathbb{R}^3 , vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradient, surfaces, optimization and the method of Lagrange multipliers. Lecture: 3 hours; problem session: 1 hour. Students must register for the problem session.

Prerequisite: Course V 1105 or the equivalent.

4 points.

x: M W F 9:00-9:50. P. Gallagher.

y: Sec. 1 M W F 10:00-10:50. D. Goldfeld.

Sec. 2 M W F 11:00-11:50. D. Rockmore.

Sec. 3 M W 1:10-2:25. H. Pinkham.

MAT V 1107x, 1108y. Honors Mathematics I-II.

For further information see the discussion under "General Information," page 174. —Instructor to be announced.

3 points. M W F 11:00-11:50.

Mathematics

MAT V 1111x, 1112y. Calculus for Economics. 1 and 2.

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, integrals; y: Partial derivatives, optimization, differential equations, infinite series, Taylor's formula.

Prerequisite: Same as for V 1101-V 1102.
3 points.

x: Sec. 1 M W F 10:00-10:50. M. Heumos.

Sec. 2 M W F 11:00-11:50. D. Yang.

y: Sec. 1 M W F 10:00-10:50. M. Heumos.

Sec. 2 M W F 11:00-11:50. D. Yang.

MAT V 1201x, y. Calculus IIIA.

Vectors in dimensions 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extrema; double and triple integrals.

Prerequisite: Course V 1102 or the equivalent.
3 points.

x: Sec. 1 Tu Th 10:35-11:50. J. Pila.

Sec. 2 Tu Th 10:35-11:50. J. Tysk.

Sec. 3 Tu Th 1:10-2:25. D. Rana.

Sec. 4 Tu Th 2:40-3:55. K. O'Grady.

y: Sec. 1 M W F 10:00-10:50. X-S. Lin.

Sec. 2 Tu Th 6:10-7:25. K. O'Grady.

MAT V 1205x, y. Calculus IIIS/IVA.

Multiple integrals, Taylor's formula in several variables, line and surface integrals, calculus of vector fields.

Prerequisite: Course V 1106 or V 1201 or the equivalent.

3 points. x: Tu Th 6:10-7:25. S. Wu.

y: Sec. 1 M W F 9:00-9:50. P. Gallagher.

Sec. 2 Tu Th 10:35-11:50. J. Pila.

Sec. 3 Tu Th 1:10-2:25. To be announced.

MAT V 1207x, 1208y. Honors Mathematics III, IV.

—A. Winkler.

Prerequisite: Course V 1107- V 1108. Course V 1207 is the prerequisite for V 1208.

3 points. Tu Th 10:35-11:50.

MAT V 3007y. Complex Variables.

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-

Riemann equations; Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities; residue theorem and conformal mapping. — M. Kuranishi.

Prerequisite: Calculus IIIS.

3 points. Tu Th 2:40-3:55.

MAT V 3020x. Elementary Number Theory.

Congruences. Primitive roots. Quadratic residues. Contemporary applications. — K-S. Tan.

Prerequisite: one year of calculus.

3 points. M W 1:10-2:25.

MAT V 3021 y. Combinatorial Number Theory.

Advanced topics in number theory. Continued fractions. Approximations by rational numbers. Transcendental numbers. Arithmetic functions. Partitions of numbers and their generating functions. Stress on the combinatorial and algorithmic aspects of number theory. Contemporary applications.—K-S. Tan.

Prerequisite: MAT V 3020 or MAT V 3040.

3 points. M W 1:10-2:25.

MAT V 3027x. Ordinary Differential Equations.

Equations of order one: linear equations series solutions at regular and singular points. boundary value problems; selected applications. — F. Maier.

Prerequisite: Calculus III or the equivalent.

3 points. Tu Th 6:10-7:25.

MAT V 3028y. Partial Differential Equations.

Introduction to partial differential equations; first order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems. — F. Maier.

Prerequisite: Course V 3027 or the equivalent.

3 points. Tu Th 6:10-7:25.

MAT V 3030y. Dynamical Systems.

Systems, in particular, linear systems of differential equations; qualitative study of the solutions. Applications to population biology, economics, physics, and chemistry, as selected by the instructor. — J. Pila.

Prerequisite: MAT V 3202 and MAT W 4061.

3 points. Tu Th 9:10-10:25.

Mathematics

MAT V 3040x, 3041y. Introduction to Modern Algebra.

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory. — P. Woit.

Prerequisite: MAT V 1202 or equivalent.

3 points. M W 2:40-3:55.

MAT V 3202x, y. Linear Algebra.

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, reduction to canonical forms.

Prerequisite: MAT V 1201 or the equivalent.

3 points. x: Tu Th 9:10-10:25. J. Gregg.

y: Tu Th 4:10-5:25. S. Wu.

MAT V 3375y. Geometric Topology.

The fundamental group of a topological space; Seifert-Van Kampen Theorem, covering spaces, classification of 2-manifolds, simplicial homology. — K. O'Grady.

Prerequisites: Courses V 3040 and W 4061 or their equivalents. This course is intended primarily for mathematics majors.

3 points. Tu Th 1:10-2:25.

MAT V 3386x. Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space; Frenet formulas for curves; various types of curvatures for curves and surfaces and their relations; Gauss-Bonnet theorem. — T. Farrell.

Prerequisite: Calculus IIIS or the equivalent.

Primarily for mathematics majors.

3 points. Tu Th 1:10-2:25.

MAT V 3901 x, V 3902y. Supervised Readings in Mathematics.

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required. — Staff.

Permission of the chairman and of the staff member who agrees to act as sponsor are required.

2 or 3 points. Hours to be arranged.

MAT V 3951 x, V 3952y. Undergraduate Seminars in Mathematics.

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty

member or senior teaching fellow. — x: R. Silvotti, y: A. Winkler.

Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chair.

3 points.

Consult 4th floor bulletin board. Mathematics Building, for organizational meeting date and time, during registration period.

MAT W 4032x. Fourier Analysis.

Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. Stress on the application of Fourier Analysis to a wide range of disciplines. — J. Tysk.

Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55.

MAT W 4033y. Calculus of Variations.

Euler-Lagrange equations, symmetry and conservation laws, Noether's theorem, Legendre transform. Other topics chosen by the instructor. Stress on the application of calculus of variations to a wide range of disciplines. — J. Tysk.

Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55.

MAT V 4061x, V 4062y. Introduction to Modern Analysis.

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor. — X-C. Rong.

Prerequisite: MAT V 1205 or the equivalent.

3 points. Tu Th 4:10-5:25.

MAT W 4062x. Analysis of Numerical Methods I.

Iterative rootfinding algorithm, interpolation, general considerations of approximations by polynomials, numerical integration, numerical methods for ODEs. Mathematical techniques behind the numerical methods emphasized throughout. — D. Rana.

Prerequisite: Calc. IIIS and Modern Analysis I — or Honors Calculus sequence. Linear algebra can replace Calculus III.

3 points. Tu Th 10:35-11:50.

Mathematics

MAT W 4063y. Analysis of Numerical Methods II.

Introduction of norms on linear operators for analysis of: solutions of systems of linear equations (Gaussian elimination, LU factorizations, iterative methods), eigenvalue problems, and discretization methods for PDEs. Mathematical techniques behind the numerical methods emphasized throughout.— D. Rana.

Prerequisite: Analysis of Numerical Methods I and Linear Algebra.

3 points. Tu Th 10:35-11:50.

APM E 4901x-4902y. Seminar: Problems in Applied Mathematics.

Required for all applied mathematics majors in the junior year. Introductory seminars on problems and techniques in applied mathematics. Typical topics of nonlinear dynamics, scientific computation, economics, and operations research.— C. Chu.

Prerequisite or corequisite: MAT V 3007, V 3028, and V 3202, or their equivalents.

1 point. Tu 12:00-1:00.

APM E 4093x-y. Seminar: Problems in Applied Mathematics.

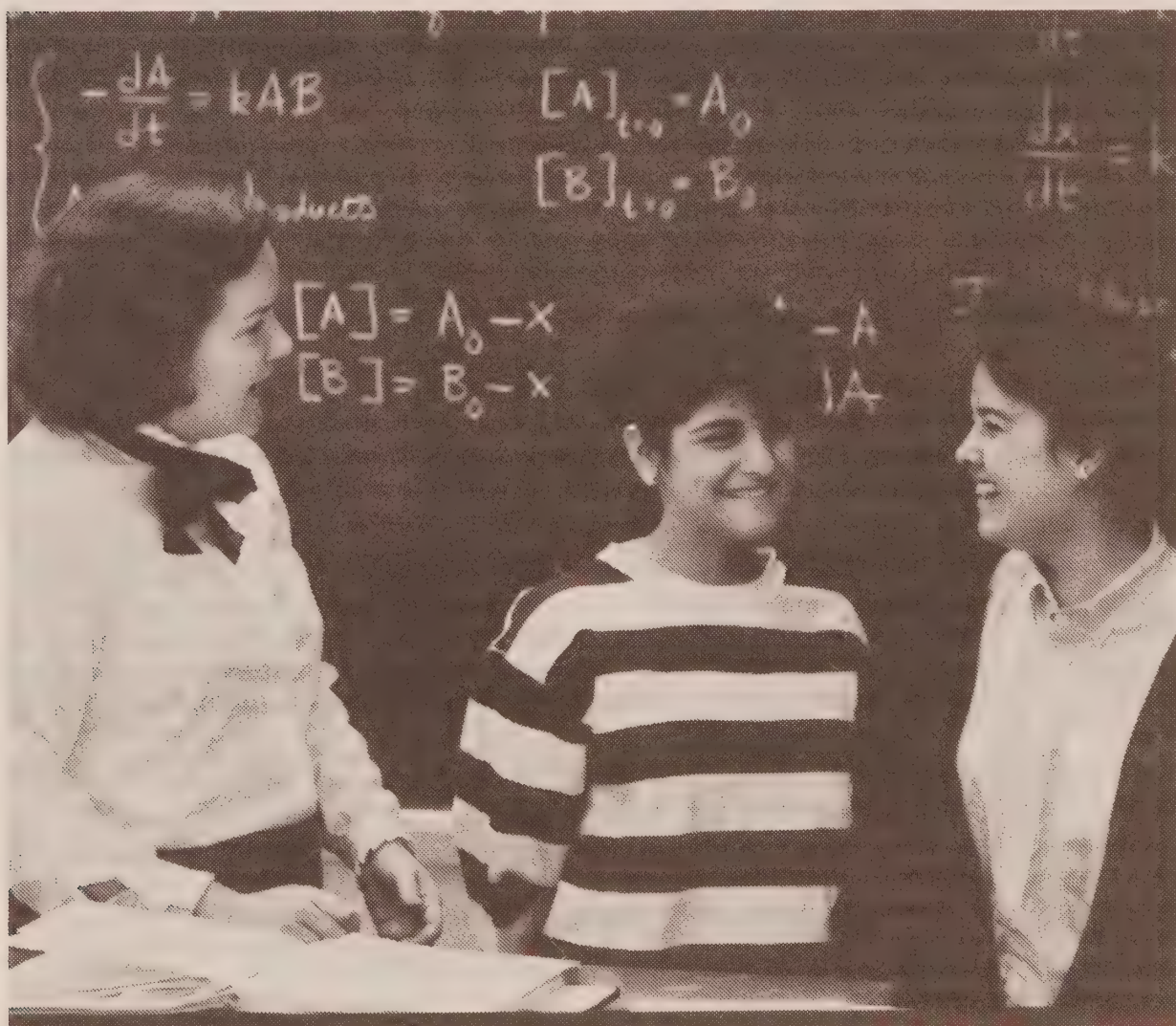
Required for all applied mathematics majors in the senior year. It consists of the same weekly lecture as Applied MAT E 4901-4902 plus two hours of tutorials a week. Examples of problem areas are nonlinear dynamics, asymptotics, approximation theory, and numerical methods.— C. Chu.

Prerequisite or corequisite: MAT V 3007, V 3028, and V 3202, or their equivalents.

3 points. Tu 12:00-2:00, Th 12:00-1:00.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Medieval and Renaissance Studies

Office: 413 Lehman Hall/301a Barnard

Telephone: 854-4350, 5050

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professors of Art History

Keith Moxey, Jane Rosenthal (Chair, Spring)

Professor of Classics

Lydia Lenaghan

Professors of English

Ruth Kivette, Anne Prescott, Remington Patterson

Assistant Professors of English

Christopher Baswell, Erik Ryding, Timea Szell

Lecturer in German

Regina Ayre

Professor of History

Suzanne Wemple¹ (Chair, Autumn)

Professor of Music

Hubert Doris

Professor of Spanish

Marcia Welles

¹Absent on leave Spring Term

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of the Medieval and Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, one of the literatures, philosophy, romance philology, music, or religion. A sequence of five courses to be taken in the field of concentration has been developed by the relevant department.

A minimum of twelve courses is required for the major in Medieval and Renaissance Studies, distributed as follows:

- 5 courses in the area of concentration;
- 2 history courses;
- 3 Medieval and Renaissance Studies courses;
- 2 electives to be chosen in consultation with the adviser.

Students are required to write a senior essay, either in a Medieval and Renaissance Studies course or in a senior level seminar in the discipline of their concentration.

Language Requirements

Medieval Studies. A reading knowledge of one Romance or Germanic language is required. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Latin V 3033, Medieval Literature.)

Renaissance Studies. A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Mimeographed lists of concentration courses are available from the Program Adviser, 413 Lehman Hall.

REQUIREMENTS FOR THE MINOR

There is no minor in Medieval and Renaissance Studies.

Medieval and Renaissance Studies

COURSES OF INSTRUCTION

MRS BC 3086x. Women in the Middle Ages: Ideals and Reality.

Position of women in the medieval social structure and as reflected in the image of women in literature and art. Women's contributions to art and literature and some common medieval stereotypes examined on the basis of primary evidence, letters, manuals, documents, literary texts, and works of art. — J. Rosenthal and S. Wemple.

4 points. Not offered in 1990-91. H

MRS BC 3087y. Spain of the Hapsburgs: A Culture in Crisis.

A survey of the crises that beset Spain during the course of the 16th- and 17th-centuries, with particular attention to the cultural impact of the Protestant Reformation. The focus is on the role of art and literature in the formation of and expression of the national ideology. Readings will include the *Lazarillo de Tormes*, selected writings of St. John of the Cross, Saint Teresa of Avila, Cervantes, Lope, Mateo Alemán, Quevedo, Cóngora, Calderón. — M. Welles.

3 points. Not offered in 1990-91.

MRS BC 3090y. Senior Seminar.

Texts central to the continuity and reappraisal of medieval and Renaissance traditions. Readings linked to the student's experience in various fields provide a context for the preparation of a senior thesis. — Members of the Committee.

4 points. Hours to be arranged.

OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES

Art History ARH BC 3351x. Early Christian and Early Medieval Art.

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture, and painting under the patronage of church and state in Western Europe from the 4th through the 11th century. — J. Rosenthal.

3 points. M W 2:40-3:55. H

Art History ARH BC 3352y. Art of the Later Middle Ages.

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions. — S. Murray.

3 points. M W 2:40-3:55. H

Art History ARH W 3400x. Italian Renaissance Painting.

The work of the major masters who flourished in the 15th and early 16th century with special emphasis given to Masaccio, Piero della Francesca, Leonardo da Vinci, Giovanni Bellini, Giorgione, Titian, and Michelangelo. — J. Beck.

3 points. Not offered in 1990-91. H

Art History ARH V3420y. Italian Sculpture During the Renaissance.

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo. — J. Beck.

3 points. Not offered in 1990-91. H

Art History ARH V 3437x. Italian Renaissance Painting II: The Sixteenth Century.

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures. — D. Rosand.

3 points. M W 11:00-12:15. H

Art History ARH V3475x. Art and Culture of the Northern Renaissance.

The naturalism in the art of Campin, van Eyck, van der Weyden, van der Goes and others will be interpreted as the production of different types of "reality effect" rather than as a progression towards ever greater illusionism. Early printmaking will also be surveyed with special attention paid to the way in which so-called "early imagery" served to articulate and support the social hierarchy. — K. Moxey.

3 points. Not offered in 1990-91. H

ARH W 4480y. Art in the Age of the Reformation.

This course will trace the ways in which the cultural and social functions of artistic production in Germany and the Netherlands were transformed as a consequence of the dissemination of the ideologies of humanism and the Reformation. — K. Moxey.

3 points. Tu Th 10:35-11:50. H

ARH BC 3978x. "High" and "Low" Art in German Prints around 1500.

This course will focus both on the producers of woodcuts and engravings as well as the audience for which they were made in order to interpret the ways in which the values they

Medieval and Renaissance Studies

manifested served to structure social relations in this period. Among the artists to be considered are Master E. S., the Housebook Master, Martin Schongauer, Albrecht Durer, Sebald and Barthel Beham, Erhard Schon, Baldung Grien, Lucas Cranach and Albrecht Altdorfer. —K. Moxey.

Intended primarily for seniors. Permission of the instructor required. Prerequisite: BC 1001 or equivalent.

4 points. Th 4:10-6:00.

Art History ARH BC 3953y. The Art of Medieval Manuscript Illumination.

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City. — J. Rosenthal.

4 points. W 5:00-7:00.

H

Art History ARH W 4313y. English Art in the 12th Century.

Romanesque art in England with emphasis on painting, sculpture and the literary arts. Courses open to graduate and undergraduate students with an extra hour for undergraduates. — J. Rosenthal.

3 points. M W 4:10-5:25.

Art History ARH W 4315y. The Making of Medieval Art: 650-900.

The development of medieval art in the Germanic kingdoms of Western Europe from mid-7th century to the end of the Carolingian empire. — J. Rosenthal.

3 points. Not offered in 1990-91.

ARH W 4356y. Gothic Painting in France, 1200-1350.

Origins and development of French Gothic Painting from the Ingeborg Psalter through the works of Pucelle and his circle. — J. Rosenthal.

3 points. Not offered in 1990-91.

Latin LAT BC 3033y. Medieval Literature.

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography. — J. Magee.

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. Tu Th 2:40-3:55.

Latin LAT W 4152x Medieval Latin Literature.

Readings from Latin authors of the late classical period and the early Middle Ages. — J. Magee.

Prerequisite: Course V 3012 or the equivalent.
3 points. M W 1:10-2:25.

H

English ENG BC 3154x. The Early Chaucer.
Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules, with emphasis on Troilus and Criseyde; related texts by other writers. — C. Baswell.

3 points. Not offered in 1990-91.

English ENG BC 3155y. Chaucer.

The Canterbury Tales. — C. Baswell.

3 points. Tu Th 10:35-11:50.

English ENG BC 3158x. Medieval Literature.

English and Continental literary works from the fourth to the 15th-century, studied in the original or in translation. — T. Szell.

3 points. Tu Th 10:35-11:50.

H

English ENG BC 3163x, 3164y. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare. — R Patterson.

3 points. M W 11:00-12:15.

H

English ENG BC 3165x. The Elizabethan Renaissance.

Literature in the age of Elizabeth I. Sidney, Spenser, Shakespeare and their contemporaries. Songs, the love sonnet, prose, fiction, satire. Some attention to music and visual imagery.—E. Ryding.

3 points. M W 1:10-2:25.

H

English ENG BC 3166x. Seventeenth Century Prose and Poetry.

Classical traditions, Christian beliefs, the new science and the literary imagination; thought and style in English literature from Bacon, Donne, and Jonson to Milton, Marvell, Bunyan, and Dryden. — R. Kivette.

3 points. Not offered in 1990-91.

H

English ENG BC 3167y. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose. — R. Kivette.

3 points. Tu Th 9:10-10:25.

Medieval and Renaissance Studies

English ENG BC 3169y. English Drama: 900-1642.

English drama from its beginnings to the closings of the theatres. Medieval plays, the Tudor interlude, and major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson and Webster. — R. Patterson.

3 points. *M W 2:40-3:55.*

H

English ENG BC 3997x. 9. Epic and Romance.

Epic and romance, from the classical period to the twentieth century, and study of their competition and mutual influence. Readings from Greek romance, Latin epic, Chaucer, Malory, Spenser, Milton, the novel, science fiction. — C. Baswell.

4 points. *W 2:10-4:00.*

28. English Drama with Focus on Shakespeare.

—R. Patterson.

4 points. *Th 2:10-4:00.*

English ENG BC 3998y. Studies in Literature.

1. Medieval Literature: Medieval Heroines.—T. Szell.

4 points. *Tu 4:10-6:00.*

2. Renaissance: Gender in the Age of Shakespeare.—E. Ryding.

4 points. *Th 2:10-4:00.*

English W 4101x. The Tudor Renaissance.

Non-dramatic literature of the 16th Century: Humanism in courtly literature, Spenser, Sidney, and Shakespeare. — A. Prescott.

3 points. *M W 11:00-12:15.*

French FRE BC 3031x. The Middle Ages.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points. *Not offered in 1990-91.*

French FRE BC 3032y. Power and Religion in the 16th Century.

Fictional and non-fictional prose of the 16th and 17th-centuries: Rabelais, Montaigne, Descartes, Pascal, la Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the permission of the instructor.

Enrollment limited to 20 students.

3 points. *Not offered in 1990-91.*

French FRE BC 3033y. Renaissance, Baroque and Classical Poetry.

Aesthetics of poetry from early Renaissance to classical age.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the permission of the instructor.

3 points. *Not offered in 1990-91.*

German GER BC 3045y. Literary Traditions in the Time of the Medieval Empire.

Introduction to the feudal age and to German literature from about 1200 to about 1400:

Parzival, Tristan and Das Nibelungenlied. Texts used for reading are in modern German. — R. Ayre.

Prerequisite: BC 1204 or the equivalent.

3 points. *Not offered in 1990-91.*

H

History HIS BC 1003x. The Early Middle Ages: 300-1050.

Fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Ottonian empires. — S. Wemple.

3 points. *Tu Th 10:35-11:50.*

S

History HIS BC 1004y. The High Middle Ages: 1050-1450.

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings. — S. Wemple.

3 points. *Not offered in 1990-91.*

S

History HIS BC 3406x. The History of Women in the Middle Ages.

Origins of the legal and social position of women in medieval society as reflected in patristic writings, and Roman and Germanic codes. Contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine and literature. — S. Wemple.

Prerequisite: BC 1003 or BC 1004 or the equivalent. Permission of the instructor required.

4 points. *Th 2:10-4:00.*

S

History HIS BC 3409x. Monasticism in the Middle Ages.

The emergence of Monasticism in the late third century; its survival and spread as spiritual, economic, educational and political institution to the fifteenth century. — S. Wemple.

4 points. *Tu 2:10-4:00.*

S

Medieval and Renaissance Studies

History HIS W 1150x. Introduction to the History of Europe. 1: Renaissance to Enlightenment.—E. Rice.
3 points. M W 6:10-7:00. S

History HIS 3542y. The Land of Three Religions; Spain in the Middle Ages.—O. Constable.
3 points. Tu 2:10-4:00. S

ITA V 3895y. An Introduction to Dante's Divine Comedy: The Inferno.
A reading in English translations (prose and verse) of Dante's *Inferno*. Class lectures and discussions. Studies in Dante's theology and philosophy, politics and concept of history, style and narrative technique; research in the poem's reflections in English and American literature.—T. Wlassics.
A knowledge of Italian is not required.
3 points. Tu 4:10-6:00.

Italian ITA V 3981y. Dante. La Divina Commedia.
The Divine Comedy, focusing on textual analysis and the appreciation of Dante's masterwork as poetic text. Readings and lectures in Italian: class discussion and written assignments in either Italian or English. — L. Rebay.
Prerequisite: two years of college Italian.
3 points. Not offered in 1990-91. H

ITA V 3196x. Petrarch and Boccaccio.
Analysis of the *Filostrato*, the *Decameron*, and selections from other works by Boccaccio. The origins of humanism and interrelations between Dante, Boccaccio, Petrarch.—J. Cavallo.
3 points. Tu Th 2:10-4:00. H

Religion REL V 3406y. Medieval Ecclesiastical History: 900-1400.
Institutional, doctrinal, and social development of Latin Christianity from the post-Carolingian age to the conciliar struggles of the 15th-century. — R. Somerville.
3 points. Not offered in 1990-91. H

Religion REL V 3409x. Luther and the Radical Reformation: Piety and Politics.
Religious uniformity and diversity within the Protestant Reformation of the 16th-century.

Special attention to major radical reformers and to such issues as the divinity of Jesus, the place of violence in reform, the relation between social and religious reform. Source material consists of debates, letters, journals, and theological tracts. — R. Luman.
3 points. Not offered in 1990-91. H

Religion REL V 3804y. The 16th Century Reformation of Latin Christianity.
Latin Christianity in the early 16th century and the developing schism, with readings and discussion of works by Erasmus, Luther, Zwingli, Calvin and others.—R. Somerville.
4 points. M 4:10-6:00.

Spanish SPA BC 3123x. Spanish Literature in the Middle Ages and the Early Renaissance.
A consideration of how East meets West in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish literature from its origins to the early 16th-century. Readings range from the epic masterpiece *El Poema del Cid* to *La Celestina* by Fernando Rojas. — M. Servodidio.
3 points. M W 2:40-3:55 H

Theatre ETR BC 3131x. History of Theatre: the Greeks to Shakespeare.
Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Renaissance to the Restoration in England and France. — P. Berman, E. Swain.
Enrollment limited to 40 students.
3 points. Tu Th 2:40-3:55. H

Theatre THR BC 3006y. Acting VI: Problems in Style.
Shakespeare. — E. Swain.
3 points. Tu Th 10:00-11:50 plus two additional hours to be arranged.

For other Columbia courses and graduate courses, please consult the proper catalogues and see Professor Rosenthal or Professor Wemple.

Music

Office: 409 Milbank Hall

Telephone: 854-5096, 3825

Professor

Hubert Doris (Chair)

Assistant Professor

Severine Neff

Instructor

David Pannett

Associates

Gail Archer, Jane McMahan, Lynn Owen, Neil Semer

Visiting Artist

Virginia Bosler Doris

Other officers of the University offering courses listed below:

Professors

Ian Bent, Dieter Christensen, Jonathan Kramer, Leeman L. Perkins¹

Associate Professors

George Edwards, Walter Frisch, Michael Long², Elaine Sisman

Assistant Professors

Mark De Bellis, Bradford Garton, Cynthia Gessele, Peter Manuel, David Rakowski¹, Mark Tucker

Adjunct Lecturer

Christopher Hatch

Associates

Anahid Ajemian, Karl Bargaen, Eric Bartlett, Allen Blustine, Ronald Borrer, David Braynard, Marshall Coid, Kenneth Cooper, Maureen Gallagher, Christopher Gekker, Christine Gummere, Claire Heldrich, Mark Hill, Benjamin Hudson, Mindy Kaufman, Anthony Korf, Linda McKnight, Morris Newman, Niels Østbye, Donald Palma, Susan Palma, William Purvis, Matthew Raimondi, Ronald Roseman, George Rothman, Mark Shuman, Michael Skelly, George Stauffer, Lisa Terry

¹Absent on leave 1990-91

²Absent on leave Spring Term

DEGREE REQUIREMENTS FOR A MAJOR IN MUSIC

Program of Study: to be planned with the department consultant, preferably before the end of the sophomore year, and no later than the beginning of the junior year. Prospective music majors should complete the prerequisites by the end of their sophomore year. By the end of her first year as a music major the student should select a faculty adviser. (Students who have already entered the major will complete the program in accord with the requirements as listed in the 1988-89 catalogue. Any questions about the changes in required courses should be addressed to departmental chair.)

Prerequisite: *Fundamentals of Western Music* V 1001. Prospective music majors are advised to satisfy this prerequisite prior to their declaration as majors or before the end of their sophomore year. This requirement may be fulfilled either through successful completion of the course or satisfactory performance on examinations administered each semester by the Department.

Courses: a minimum of 34 points consisting of the following, *Introduction to Music* BC 1001-2, *Diatonic Harmony* V 2310, *Chromatic Harmony* V 2311, *Counterpoint* V 2312, and any one of the V 3000-level Advanced Theory electives (not offered 1989-90); one 4000-level "Topics" course.

The student may fulfill the remaining 10 points with courses chosen from the 2000-4000 levels. No more than 6 points of courses at the V 2000-level may be counted

Music

toward the major. Majors are required to participate in an ensemble activity (chorus or orchestra or something comparable approved by the department). Up to 4 points of private lessons on an instrument or participation in a University performing ensemble may be counted toward the major.

Senior Exercise: Working with her adviser, a major must complete an original project in her senior year. It may be the expansion of a paper done in a 4000-level course (as long as it deals with primary sources), a composition, or a recital.

Keyboard Proficiency: the music major will be required to take a keyboard proficiency exam upon entrance into the first semester of theory. If she does not pass the exam, she will be required to take up to two semesters of piano that do not count toward the completion of the major.

Languages: for students who plan to do graduate work in music, the study of German, French, Italian and/or Latin is recommended.

Performance Concentration: Students wishing to concentrate in performance substitute a recital for the Senior Exercise and take two performance seminars (not offered 1989-90) in addition for a total of 41 points. These students may, beginning in the Junior year, take lessons with the teacher of their choice through the College, but do not receive credit for the lessons.

With the permission of the Department Chair, students may take courses or lessons at the Manhattan School of Music or the Juilliard School. For non-majors, there is a two-semester limit, but majors may continue, beginning in the Junior year, for the remainder of their program.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor: three terms of Theory and two terms of History.

Practice rooms: piano practice rooms are available, at a nominal fee, upon application to the Music Department in 703 Dodge. Application should be made during registration week and the first week of classes. Preference in assigning hours is given to students taking piano instruction, majors, and concentrators, in order of application. The organ studio in St. Paul's Chapel is available for organ practice. Arrangements should be made with the Chapel organist during the first week of classes.

Performance Activities:

COLUMBIA UNIVERSITY ORCHESTRA, Mr. George Rothman, director. Membership is open to all members of the University community. See Music V 1591-V 1592 for the audition schedule and description of activities. Students who wish to receive course credit may register for the course as listed.

BARNARD-COLUMBIA CHORUS, Ms. Gail Archer, director. Membership is open to all members of the University community.

MUSIC FOR AN HOUR

This series of informal chamber concerts, held in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

INSTRUMENTAL AND VOCAL INSTRUCTION

A maximum of two courses may be taken. Enrollment in additional courses in instrumental music is limited to music majors and to students concurrently enrolled in the theory sequence. Students will receive one point of degree credit for each course but will be charged tuition at the rate of three or four points for each course. Written permission from the chair is required.

COLLEGIUM MUSICUM

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

COURSES OF INSTRUCTION

MUS BC 1001x, BC 1002y.

An Introduction to Music.

Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. — Staff.

No previous knowledge of music is required.

3 points. Sec. 1 M W 1:10-2:25. H. Doris.

Sec. 2 Tu Th 4:10-5:25. D. Pannett. H

MUS V 1002x, y. Fundamentals of Western Music.

A student may place out of this course with a score of 5 on the Advanced Placement Examination or by an examination given by the Department at the beginning of the semester. The basic elements of music to be studied with the aim of developing musicianship will include: notation, dictation, sight-singing, transposition, aural recognition of the simpler forms, triad identification, cadence types, voice-leading in two parts. The required one-hour lab is for drills. — Instructor to be announced.

4 points.x: M W 4:10-5:25.

Lab: Sec.1 M 3:00-4:00.

Sec.2 W 3:00-4:00.

y: 1 M W 1:10-2:25.

Lab: Sec.1 M 3:00-4:00.

Sec.2 Tu 3:00-4:00.

Sec.3 W 3:00-4:00.

Sec.4 Th 3:00-4:00.

H

MUS BC 1501x, BC 1502y. Voice Instruction.

Entrance by audition only (call Department during registration for time and place of audition). One hour private lesson weekly. — Instructor to be announced.

1 point. Hours to be arranged.

MUS V 2010x or y. Popular Music in the Americas.

A topical approach to selected popular music practices in their socio-historical context, with emphasis on the 20th century and the roles of commercialism and the mass media. — S. Williams.

Fall Topic: Rock. Spring Topic: the Brazilian Sound.

Prerequisite: BC 1001 or 2, MUS HUM C 1123 or MUS F 1001 or the equivalent.

3 points. M W 1:10-2:25. One hour is a listening hour.

MUS V 2016x. Introduction to Jazz.

The musical and cultural features of jazz, beginning in 1900. — M. Tucker.

Prerequisite: MUS F 1001 or MUS HUM C 1123 or the equivalent.

3 points. Tu Th 1:10-2:25.

One hour is a listening hour.

MUS V 2023y. Mozart.

The life, works, and cultural milieu of Wolfgang Amadeus Mozart, with emphasis on selected symphonies, string quartets, piano concertos, and operas.—E. Sisman.

Prerequisite: MUS F 1001, HUM C 1123 or the equivalent.

3 points. M W 3:10-4:25.

H

MUS V 2026y. The Symphony.

Survey of the literature of the symphony from 1750 to the present. — Instructor to be announced.

Prerequisite: MUS F 1001 or MUS HUM C 1123 or the equivalent.

3 points. M W 1:10-2:25.

One hour is a listening hour.

H

MUS V 2205x, y. MIDI Music Production Techniques.

An introduction to the potential of digital synthesis by means of the MIDI (Musical Instrument Digital Interface). The goals of the course, in addition to teaching proficiency in elementary and advanced MIDI techniques, will be to challenge some of the assumptions about music built into the MIDI specifications and to foster a creative approach to using MIDI machines. — B. Garton.

3 points. Tu Th 1:10-2:25.

Music

MUS V 2310x. Diatonic Harmony.

A study of the structures and principles of diatonic harmony: scales, key signatures; intervals; tonal functions; triads and sevenths; chord inversions; non-harmonic tones; pivot chords; secondary dominants; modulation. A two-hour lab will include parallel work in keyboard harmony, sight-singing, ear-training, and analysis. — Instructor to be announced.

Prerequisite: MUS V 1001 or the equivalent.

3 points. M W 10:35-11:50.

Lab: Sec.1 M W 5:00-6:00.

Sec.2 Tu Th 4:00-5:00

MUS V 2311y. Chromatic Harmony.

A study of the structures and principles of chromatic harmony: secondary dominants, neapolitan sixths, diminished sevenths; augmented sixth chords; ninth chords; chromatic sevenths. Each harmony will be illustrated in analyses of the tonal repertory. A one-hour lab will include parallel work in keyboard harmony, sight-singing, ear-training, and analysis. — C. Hatch.

Prerequisite: MUS V 2310

4 points. Tu Th 10:35-11:50.

Lab: Sec.1 M W 5:00-6:00.

Sec.2 Tu Th 4:00-5:00.

MUS V 3125x. Music of the Classical and Romantic Period.

A survey of Western Music from Haydn and Mozart to the death of Wagner. — E. Sisman.

Prerequisite: MUS F 1001, MUS HUM C 1123, MUS V 1001, or the equivalent.

3 points. Tu Th 3:10-4:25

One hour is a listening hour.

MUS V 3126y. Music of the Modern Period.

A survey of Western music from the death of Wagner to the present. — Instructor to be announced.

Prerequisite: MUS F 1001, MUS HUM C 1123, MUS V 1001, or the equivalent.

3 points. Tu Th 3:10-4:25. *One hour is a listening hour.*

MUS V 3135x. Minimalism and Post-Modernism in Music.

Investigation of 'system' and 'audible process' in the LaMonte Young, Reich, Riley, Glass and others; and of stylistic 'pluralism' in Adams, Rzewsky, Del Tredici, Schnittke, and others. — I. Bent.

Prerequisite: F 1001, HUM C 1123 or permission of instructor.

3 points. M W 5:10-6:25.

H

MUS V 3155y. Musical Revolutions.

Investigation of how and if music can be seen as inherently "revolutionary" through the study of musical revolutions and music in revolutions. Musical styles in religious, political and social revolutions will be discussed.—C. Gessele.

Prerequisite: MUS F 1001, HUM C 1123 or permission of instructor.

3 points. M W 3:10-4:25.

H

MUS V 3160y. Music and Dance.

This course will cover the interdependent relationships among theatrical dancing, folk and popular dance, and the music used by the various dance forms. Special attention will be paid to the music and dance of the 18th-20th centuries, involving the choreography of Taglioni, Petipa, Saint Leon, Fokine, Balanchine, et al., and the music of the composers who either wrote specifically for them or whose works they adapted for theatrical purposes.—H. Doris and V. Doris.

Prerequisite: MUS F 1001, HUM C 1123, BC 1001/1002 or DAN BC 2565/66. Permission of instructor.

3 points. Tu Th 2:40-3:55.

H

MUS V 3239x-V 3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. — Instructor to be announced.

Prerequisite: Course V 2301

or written permission of the instructor.

3 points. M W 3:10-4:25.

Oriental Humanities-Music OMU V 3320y. Introduction to the Musics of East Asia and Southeast Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Christensen, P. Manuel.

3 points. Tu Th 6:10-8:00. *One hour is a listening hour.*

Oriental Humanities-Music OMU V 3321x. Introduction to the Musics of India and West Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. — P. Manuel, D. Christensen.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

MUS V 3330y. Advanced Counterpoint.

The study of baroque counterpoint in the style of J.S. Bach; general aspects of voice-leading; dances, inventions; canons; expositions of fugues.—S. Neff.

Prerequisite: MUS V 2310, 2311 and 2312.

3 points. M W 1:10-2:25.

MUS V 3345x. Rhythm and Meter.

Analysis of rhythm and meter in selected tonal compositions; applications to performance; study of recent theories of rhythm and meter by selected writers.—J. Kramer.

Prerequisite: MUS V 2310, 2311 and 2312.

3 points. M 1:10-3:00 and W 2:10-3:00.

MUS V 3360y. Pre-tonal and Tonal

Analysis.

Detailed in-depth analysis of selected pre-tonal and tonal compositions. —J. Kramer.

Prerequisite: MUS V 2310, 2311, and 2312.

3 points. M 1:10-3:00 and W 2:10-3:00.

MUS V 3361x. Tonal and Post-tonal

Analysis.

The study of 20th-century theories of non-tonal music; analysis of the works of Schoenberg, Debussy, Stravinsky, Boulez and Cage.—S. Neff.

Prerequisite: MUS V 2310, 2311 and 2312.

3 points. Tu 3:10-5:00 and Th 4:10-5:00.

MUS V 3373x-MUS V 3374y.

Orchestration, Score Reading and Conducting.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. —Instructor to be announced.

Prerequisite: Course V 2311 or the equivalent.

3 points. Tu Th 3:10-4:25.

MUS V 3440y. Rāg and Tāl: Theories of Indian Music.

The melodic modes (*rags*) and metric cycles (*tals*) of North Indian music studied from the point of view of music theory, and their role as organizing principles underlying many genres of Indian music.—P. Manuel.

Prerequisite: MUS F 1001 or HUM C 1123 and MUS V 2310.

3 points. M W 1:10-2:25.

H

MUS G 4012x. The Masses and Motets of Josquin des Prez.

An examination of style, chronology, and authenticity problems in the sacred works of Josquin des Prez.—M. Long.

Prerequisite: MUS F 1001 or HUM C 1123 and permission of instructor.

3 Points. M 1:10-3:00.

H

MUS W 4409x. Folk Music.

An introduction to concepts of folk music and an examination of selected performance practices and research methods.—Instructor to be announced.

Prerequisite: permission of the instructor.

3 points. F 1:10-3:00.

H

PERFORMANCE ACTIVITIES AND INSTRUMENTAL INSTRUCTION

MUS V 1591x-V 1592y. University Orchestra and Chamber Music.

An audition to be held during registration period, by appointment at 703 Dodge Hall (x43825). Students should bring two short works, or movements of longer works, of different stylistic periods; they will also be asked to read brief orchestral or chamber music excerpts at sight. The orchestra performs throughout the academic year in works spanning all periods of music including contemporary compositions. Distinguished guest soloists sometimes perform with the orchestra, and qualified student soloists may also have the opportunity to either perform or read concertos with the orchestra. Staff positions: a few persons interested in managerial work may gain experience as orchestra librarian and personnel manager.

Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester.—G. Rothman and staff.

1 points. May be taken for Pass credit only.

M 5:30-8:00 and additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-V 1594y. Barnard-Columbia Chorus.

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester. Open to

Music

all men and women in the University community. Several public concerts are given each season both on and off campus, often with other performing organizations. Sight-singing sessions offered. Repertory includes works from all periods of music literature. — G. Archer.

Audition necessary. Pass/fail credit only.
1 point. Tu Th 6:00-8:00.

MUS V 1595x-V 1596y. Barnard-Columbia Chamber Singers.

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages. — G. Archer.

Audition Required.

1 point. Tu Th 8:00-9:30.

MUS V 1598x-1599y. Chamber Ensemble and Chamber Orchestra.

Students registering for chamber music receive ensemble training with the performance associates listed for MUS W 1525-W 1526. Student chamber ensembles perform a recital at the conclusion of each semester and are given other opportunities to perform throughout the academic year.—George Rothman and staff.

1 point. Hours to be arranged.

MUS W 1509x-W 1510y. Organ Instruction.

One one-hour lesson weekly. (3 points tuition). — G. Stauffer.

Prerequisite: permission of the instructor.

Hours to be arranged.

1 point.

MUS W 1511x-W 1512y. Organ Instruction.

One half-hour private lesson weekly. (3 points tuition).

Prerequisite: permission of the instructor.

Hours to be arranged.

1 point.

MUS W 1513x-W 1514y. Introduction to Piano.

One half-hour private lesson weekly. (3 points tuition).

Sec. 1: N. Østbye. Sec. 2: M. Skelly.

1 point. Hours to be arranged with instructor.

MUS W 1515x-W 1516y. Elementary Piano Instruction.

One one-hour private lesson weekly. (3 points tuition). Sec. 1: N. Østbye. Sec. 2: M. Skelly.

Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.

1 point. Hours to be arranged with instructor.

MUS W 1517x-W 1518y. Elementary Piano Instruction.

One half-hour private lesson weekly. (3 points tuition). Sec. 1: N. Østbye. Sec. 2: M. Skelly.

Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.

1 point. Hours to be arranged with instructor.

MUS W 2515x-W 2516y. Intermediate Piano Instruction.

One one-hour private lesson weekly. (3 points tuition). Sec. 1: N. Østbye. Sec. 2: M. Skelly.

Prerequisite: W 1515-1516 or the equivalent and permission of the instructor.

1 point. Hours to be arranged with instructor.

MUS W 2517x-W 2518y. Intermediate Piano Instruction.

One half-hour private lesson weekly. (3 points tuition). Sec. 1: N. Østbye. Sec. 2: M. Skelly.

Prerequisite: permission of the instructor.

1 point. Hours to be arranged with instructor.

MUS W 3515x-W 3516y. Advanced Piano Instruction.

One one-hour private lesson weekly. (3 points tuition). Sec. 1: N. Østbye. Sec. 2: M. Skelly.

Prerequisite: W 2515-2516 or the equivalent and permission of the instructor.

1 point. Hours to be arranged with instructor.

Music

MUS W 1525x-W 1526y. Instrumental Instruction.

One one-hour private lesson weekly taught by associates in performance. See Columbia College Catalogue for section information. Students participating in the orchestra are given precedence when applying for private instrumental instruction.

Prerequisite: Audition (see under University Orchestra).

1 point. Hours to be arranged with instructor.
FLUTE: M. Kaufman, S. Palma; OBOE: M. Hill, R. Roseman; CLARINET:

A. Blustine; BASSOON AND EARLY WIND INSTRUMENTS: M. Newman; FRENCH HORN: W. Purvis; TRUMPET: C. Gekker; TROMBONE: R. Borrer; TUBA: D. Braynard; DRUMS AND PERCUSSION: C. Heldrich, A. Korf; VIOLIN: A. Ajemian, M. Coid, B. Hudson, M. Raimondi; VIOLA: K. Barga, M. Gallagher; VIOLONCELLO: E. Bartlett, C. Gummere, M. Shuman; STRING BASS: L. McKnight, D. Palma; HARP-SICHORD: K. Cooper; VIOLA DA GAMBA: L. Terry.

Oriental Studies

Office: 321 Milbank Hall

Telephone: 854-5416 or 2125

Professor

Barbara Stoler Miller, (Samuel R. Milbank Professor, Chair)

Assistant Professor

Irene Bloom

Other officers of the University offering courses listed below:

John Mitchell Mason Professor Emeritus and Special Service Professor

William Theodore de Bary

Professors

Edward Allworth, Paul Anderer, Robert Austerlitz, Peter J. Awn (Religion), Richard Bulliet (History), Kathleen R. F. Burrill, Pierre J. Cachia, Chou Wen-chung (Music), Myron Cohen (Anthropology), Dieter Christensen (Music), Ainslie T. Embree (History), C. T. Hsia, Nina Garsoian, Carol N. Gluck, (History), John S. Hawley (Religion), Robert Hymes, Donald Keene, Gari K. Ledyard, Maan Madina, Dan Miron, Miyeko Murase (Art History and Archaeology), Rhoads Murphey, Theodore Riccardi, Barbara Ruch, George Saliba, Henry Smith, Robert A. F. Thurman (Religion), H. Paul Varley, Alex Wayman, Philip B. Yampolsky, Ehsan Yarshater, Madeleine Zelin

Adjunct Professors

Morris Rossabi, Aslam Syed (History), Arthur Tiedemann

Associate Professors

Vidya Dehejia (Art History and Archaeology), James Russell, Haruo Shirane, Mark Van De Mierop, David Wang

Assistant Professors

Ryuichi Abe, Matthew Kapstein (Religion), Richard Lufrano (History), Peter Manuel (Music), Vivian-Lee Nyitray (Religion), Paul Rouzer, David Sensabaugh (Art History and Archaeology)

Senior Lecturer

Jeanette Wakin

Lecturer

David Lelyveld

The primary aim of Oriental Studies is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian*; Arabic W 1122, *Intermediate Arabic*; Armenian W 1124, *Intermediate Armenian*; Central Asian W 1110, *Intermediate Soviet Tajik*; Central Asian W 1122, *Intermediate Uzbek*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi-Urdu W 1122, *Intermediate Hindi-Urdu*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Modern Persian*; Korean W 1202, *Intermediate Korean*; Nepali W 1122, *Intermediate Nepali*; Sanskrit G 6102, *Intermediate Sanskrit*; or Turkish W 1122, *Intermediate Turkish*.

Literature courses in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin — contact the Department of East

Oriental Studies

Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (602 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *Monday-Friday, 10:00-3:00 during August* in 602 Kent Hall.

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Oriental Studies is advised to consult a member of the department in the Spring Term of her first year. Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 140.

To major in Oriental Studies, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track

A minimum of 14 courses is required, including:

2 of the following courses:	
Oriental Civilizations- Middle East V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Oriental Civilizations- East Asia V 3002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
Oriental Civilizations V 3359	<i>Introduction to the Civilization of China</i>
Oriental Civilizations V 3361	<i>Introduction to the Civilization of Japan</i>

6 courses of an appropriate language, selected in consultation with an adviser;
4 courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments (Oriental Humanities V 3399-V 3400, *Colloquium*, may be substituted for one of the courses in this category); and

2 courses chosen from among East Asian seminars: East Asian W 4103, *Historiography of East Asia*; East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*; East Asian W 4902y, *Senior Seminar: China*; East Asian W 3904y, *Senior Seminar: Japan*; and Oriental Studies BC 3999, *Independent Study*.

The Middle East Track

A minimum of 12 courses is required, including:

Oriental Civilizations- Middle East V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
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4 to 6 courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser;

A minimum of 6 courses chosen as a concentration. The concentration may be in ancient Semitic languages and cultures, Arabic studies, Armenian studies, Central Asian studies, Hebrew language, Indian studies, Iranian studies, or Turkish studies. The courses required in each of the concentrations and other details will be explained by the adviser. The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. See also the note on Graduate Courses at the end of this section.

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REQUIREMENTS FOR THE MINOR

No minor is offered in Oriental Studies.

COURSES OF INSTRUCTION

GENERAL COURSES

Oriental Civilizations-Middle East ORM V 3001x. Introduction to Major Topics in Asian Civilization: The Middle East and India.

Interdisciplinary and topical approach to major issues and phases of Asian civilizations and their role in the contemporary world. —P. Awn and A. Embree.

4 points. Tu Th 10:35-11:50. plus an additional hour to be arranged. S

Oriental Civilizations-East Asian OEA V 3001x or 3002y. Introduction to Major Topics in Asian Civilization: East Asia.

An interdisciplinary and topical approach to major issues and phases of East Asian civilizations and their role in the contemporary world.—x: W.T. deBary, A. Tiedemann, and staff; y: I Bloom, R. Lufrano, and staff.

4 points. Tu Th 10:35-11:50. S

Oriental Civilizations-Middle East ORM V 3003y. Introduction to Islamic Civilization.

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions. From its pre-Islamic Arabian setting to the present. — J. Wakin.

3 points. M W 2:40-3:55. S

Oriental Civilizations ORC V 3359y. Introduction to East Asian Civilizations: China.

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions. — I. Bloom.

3 points. M W 1:10-2:25. S

Oriental Civilizations ORC V 3361x. Introduction to East Asian Civilizations: Japan.

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts. — P. Varley.

3 points. M W 2:40-3:55. S

Oriental Studies ORS V 3379x. Readings in Oriental Studies.

3 points. Not offered in 1990-91.

Oriental Humanities ORH V 3399x-V 3400y. Colloquium on Major Texts.

Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese, and Japanese origin, including (V3399x): the Koran, Islamic philosophy, Sufi poetry, the Upanishads, Buddhist sutras, the *Bhagavad Gita*, Indian epics and drama, Gandhi's *Autobiography*; (V 3400y) the *Analects* of Confucius, *Mencius*, *Lao Tzu*, *Chuang Tzu*, *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, Zen literature, Noh plays, Chinese and Japanese poetry. — R. Abe, P. Anderer, I. Bloom, W.T. deBary, B. Miller, J. Russell, B. Watson, E. Yarshater, and staff.

4 points.

V 3399x: Sec. 1, 2 M 4:10-6:00.

Sec. 3 Tu 4:10-6:00.

Sec. 4 W 4:10-6:00. H

Middle East-Oriental Humanities OHM V 3031y. Islamic Literature in Translation.

Modern literature of the Arabs, Persians, Turks, and other Islamic peoples.

3 points. Not offered in 1990-91. H

Oriental Humanities-Music OMU V 3320y. Introduction to the Musics of East Asia and Southeast Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. — D. Christensen, P. Manuel.

3 points. Tu Th 6:10-8:00.

One hour is a listening hour.

Oriental Humanities-Music OMU V 3321x. Introduction to the Musics of India and West Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. — P. Manuel.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

Oriental Humanities ORH V 3340x, y.

Masterpieces of Art in China, Japan, and Korea. Selected masterpieces of painting, sculpture and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion and literature.

3 points. x: M W 2:40-3:55. S. Wada.

y: Sec. 1 Tu Th 10:35-11:50. D. Sensabaugh.

Sec. 2 M W 2:40-3:55. S. Wada.

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Oriental Humanities ORH V 3339x.

Masterpieces of Islamic and Indian Art.

Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India. — V. Dehejia.

3 points. Not offered in 1990-91.

H

Oriental Studies ORS BC 3999x, y.

Independent Study.

Specialized reading and research projects planned in consultation with members of the Oriental Studies teaching staff. — Staff.

Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points. Hours to be arranged.

EAST ASIAN

East Asian EAS V 3315x. Literature and Film in Modern China.

An intensive examination of the most recent fiction published and films produced in the People's Republic of China in the context of Chinese social and political conditions and the history of Chinese literary development throughout the 20th century. — D. Wang.

3 points. M W 4:10-5:25.

East Asian EAS W 3334x. Introduction to Japanese Literature.

A knowledge of Japanese is not required. Analysis and discussion of representative works of Japanese literature from the mid-19th century to the present. — P. Anderer.

3 points. Tu Th 4:10-5:25.

East Asian EAS V 3623y. The World of the Shining Prince.

Interdisciplinary study of the religious, social, artistic, and literary dimensions of Japan's great classical period, with particular attention to *The Tale of Genji* and other literary masterpieces.

3 points. Not offered in 1990-91.

H

Chinese CHI G 4031x. Chinese Literature I. Masterpieces of classical Chinese literature, including early historical and philosophical writings; the development of poetry and literary criticism from the earliest texts through the T'ang dynasty. A knowledge of Chinese is not required.

3 points. Not offered in 1990-91.

Chinese CHI G 4032y. Chinese Literature II.

Fiction from the earliest tales to the major novels; T'ang-Sung prose; other forms of literature, including drama, from the Sung to the Ch'ing. A knowledge of Chinese is not required. — C-T. Hsia.

3 points. Tu Th 10:00-10:50.

Chinese CHI G 4033x-G 4034y. Modern Chinese Literature.

A survey of 20th-century Chinese literature. G 4033: from the late Ch'ing period to the outbreak of the Sino-Japanese War (1900-1937). G 4034 : from the war years to the latest literary trends on the mainland and in Taiwan. A knowledge of Chinese is not required. — C-T. Hsia.

3 points. Tu Th 11:00-11:50.

Japanese JAP V 3516y. Modern Japanese Writers.

A consideration of the role of writers in Japanese society since the end of the war, covering the main literary, cultural, and political elements that have affected the writing and reading of literature during this time.

3 points. Tu Th 11:00-11:50. and an additional hour to be arranged.

H

East Asian V 3610y. Social Change Reflected in the Literature and Film of Modern Japan.

The changes in society and values during the modernization of Japan from the mid-19th century to the present, using fiction, diaries, popular culture, and films as source material. — C. Gluck.

3 points. M W 11:00-12:15.

East Asian EAS V 3615x. Japanese Literature and Film.

Japanese literary forms and literary content and their relationship to Japanese film.

3 points. Not offered in 1990-91.

East Asian EAS V 3620x. Japan: The Aesthetic Tradition.

Explorations in cultural history, stressing the aesthetic sensibility of the Japanese as revealed in religion, society, thought, and the arts. Emphasis is on such distinctive pursuits as landscape gardens, the culture of tea, the Noh theater, and the modern "I-novel." — H. Varley

3 points. M W 11:00-12:15.

H

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East Asian EAS V 3635x. Women in Japanese Literature, Language and Culture.
An examination of women's participation in Japanese social, political, religious, and literary history from the 7th to 20th century, with special attention to the role of women writers from the classical period to the present day.
3 points. Not offered in 1990-91. H

History-Japanese HIJ W 3600x. World War II in American and Japanese History.
From the separate and differing viewpoints of the two nations, an examination of the war as a central experience in the recent history of both. Emphasis on the meaning and impact of the war on social, political and intellectual life in the period from Versailles through Vietnam.
3 points. Not offered in 1990-91.

History-Japanese HIJ V 3613y. Buildings and Cities in Japanese History.
A survey of the Japanese tradition of architecture and city-building from its primitive origins until the present day. The emphasis is on the cultural meaning and social significance of the built environment as a critical mode of grasping the evolution of Japanese culture as a whole.
3 points. Not offered in 1990-91.

East Asian EAS V 3650x. The Family in Chinese History.
The history of the Chinese family, its changing forms and cultural expressions: marriage and divorce, parent and child, clan and lineage, ancestor worship, the role of women, the relation of family and state, eastern parallels and contrasts. —R. Hymes.
3 points. Tu Th 1:10-2:25. S

East Asian EAS W 3902y. Senior Seminar: China.
— Staff.
Permission of the chair required.
3 points. Hours to be arranged.

East Asian EAS W 3904y. Senior Seminar: Japan.
Staff.
Permission of the chair required.
3 points. Hours to be arranged.

East Asian W 4103x. Historiography of East Asia.
Major issues in the practice of history illustrated by critical reading of important historical work on East Asia. — M. Zelin.
3 points. M 9:00-11:00. S

Chinese G 4027x-4028y. Introduction to Chinese Thought.
A general introduction to the major works of Chinese classical philosophy and to the dominant trends in the later development of Chinese thought. x: I. Bloom. y: W.T. deBary.
3 points. Tu Th 2:40-3:40.

Comparative Literature-East Asian CEA W 4101x. Critical Approaches to Asian Literature.
Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. — D. Wang.
3 points. M W 1:10-2:25.

History-Korean HIK W 4033y. The History of Modern Korea.
Korean history from 1636 to the present. — G. Ledyard.
3 points. Tu Th 1:10-2:25.

MIDDLE EAST

Oriental Humanities ORH V 3200y. Oriental Encounters: The American Experience.
The writer's experience of classics of India and the Middle East viewed through the perceptions of Emerson, Thoreau, Whitman, Melville, Yeats, Joyce, Eliot, Kerouac, and Ginsberg. Readings include the *Bhagavad Gita*, the Upanishads, Buddhist dialogues, the *Arabian Nights*, and other texts relevant to the works of these authors. —B. Miller.
3 points. Tu 2:10-4:00. plus H
conference hour to be arranged.

History W 1001y. Ancient History of Egypt and Israel.
Introduction to the history of ancient Egypt and the land of Israel, set in the Eastern Mediterranean context, from the earliest period to the conquest by Alexander the Great. — M. Van De Mieroop.
3 points. M W 11:00-12:15.

Oriental Studies

Hebrew W 3410x. Introduction to Modern Hebrew Culture.

—D. Miron.

3 points. M W 4:10-5:25.

Comparative Literature-Middle East CME W 4115y. Traditions of Indian Literature: Epic, Drama, and Lyric.

—B. Miller

3 points. Not offered in 1990-91.

History HIS W 1002x. Ancient History of Mesopotamia and Asia Minor.

A survey of political and cultural history of Mesopotamia, Anatolia, and Iran, from pre-history to the disappearance of the cuneiform documentation. Special emphasis on Mesopotamia. — M. Van De Mieroop.

3 points. M W 11:00-12:15.

History W 4825x. History of Modern India and Pakistan.

Development of modern India from the decline of the Mughal Empire and the first establishment of British power to the present time. — A. Embree.

3 points. M W 11:00-12:15.

History-Middle East HME W 3542y. The Land of Three Religions: Spain in the Middle Ages.

History of Spain from the Visigothic Period to the time of Ferdinand and Isabella. Concentration on the interaction of Christian, Muslim, and Jewish communities in the Iberian Peninsula.—O. Constable.

4 points. Tu 2:10-4:00.

Islamic-Religion ISR V 2630y. Islam.

Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods (7th-13th century C.E.), and their continued evolution in a variety of cultural settings.—P. Awn.

3 points. Tu Th 4:10-5:25.

Islamic-Religion ISR V 3635x. History of Sufism.

The history of the Islamic mystical tradition from its origins in the 8th century through its classical and institutional phases in the 12th century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—A. Syed.

3 points. Tu Th 2:40-3:55.

Political Science POS BC 3424y.

Colloquium on Asian Politics.

Comparative analysis of national experiences and political ideas and political development in India and China. — L. Calman.

Prerequisite: V 3505 or permission of the instructor. Alternate years. Enrollment limited to 20 students.

4 points. Not offered in 1990-91.

Religion REL V 1102x,y. Introduction to the Study of Eastern Religions.

3 points. x: M W 1:10-2:25. V. Nyitray.

y: M W 11:00-12:15. B. Clough.

Also note offerings under departments of Anthropology, Art History, History, Political Science and Religion.

ORIENTAL LANGUAGE COURSES

Language and literature courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for all the languages offered and detailed descriptions of courses.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

Philosophy

Office: 326 Milbank Hall

Telephone: 854-2066, 5417

Professors

Sue Howard Larson, Mary Mothersill (Chair)

Assistant Professors

Noa Latham, Robert Tragesser

Adjunct Associate Professor

John Arras

Visiting Associate Professor

Frances Kamm

Visiting Assistant Professor

Robert Myers

Lecturers

Eric Katz (Environmental Science), John Lad

Other officers of the University offering courses in Philosophy:

Professors

Bernard Berofsky, Arthur C. Danto, Haim Geifman, Raymond Geuss¹, Richard F. Kuhns Jr.², Issac Levi, Sidney Morgenbesser, David Sidorsky

Associate Professors

Charles Larmore, Thomas Pogge²

Assistant Professors

David Albert³, Akeel Bilgrami, John Collins, Shaughan Lavine²

Visiting Professors

Wolfgang Detel, Arthur Hyman

¹Absent on leave 1990-91

²Absent on leave Autumn Term

³Absent on leave Spring Term

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in technique of conceptual analysis, argument, and the interpretation of texts.

Philosophy BC 1001, *Introduction to Philosophy*, although not a requirement for the major, is recommended to students who have not had previous training in philosophy.

REQUIREMENTS FOR THE MAJOR

A major in Philosophy consists of at least 10 courses:

Philosophy V 3701

Moral Philosophy

Philosophy V 3411 or V 3415

Formal Logic

One of the following courses:

Philosophy V 3121

Plato

Philosophy V 3131

Aristotle

Philosophy V 1101

The History of Philosophy: Pre-Socratics through Augustine

One of the following courses:

Philosophy V 3222

Descartes, Spinoza and Leibniz

Philosophy V 3240

Locke, Berkeley and Hume

Philosophy V 1201

The History of Philosophy: Aquinas through Kant

Philosophy

A course in a specific figure in the history of modern philosophy no later than Kant

or

One of the following courses:

Philosophy V 3483

Philosophy V 3601

Philosophy V 3501

Theory of Meaning

Metaphysics

Theory of Knowledge

Two semesters of Philosophy BC 3288-BC 3289, *Majors' Seminar*, and three electives

The sequence of courses is to be determined in consultation with the major adviser. Philosophy BC 3288-BC 3289 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students. A number of short papers will be required or, subject to departmental approval, a student may elect to write a Senior Essay.

Students who wish to complete a double or joint major including philosophy should consult the chair of the department as early in their planning as possible.

Philosophy BC 3398, BC 3399, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual project with departmental approval and permission of the instructor.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

LIMITED ENROLLMENT COURSES

First day attendance required. Instructor will determine and post class list.

Prerequisites: One philosophy course or permission of instructor unless otherwise specified.

COURSES OF INSTRUCTION

PHI BC 1001x, y. Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge, readings from historical and contemporary sources.—Staff.

Limited enrollment. No prerequisites.
3 points.

x: Sec. 1 M W 11:00-12:15. R. Myers.

Sec. 2 M W 1:10-2:25. S. Larson.

Sec. 3 M W 2:40-3:55. R. Myers.

Sec. 4 Tu Th 10:35-11:50. J. Lad.

Sec. 5 Tu Th 1:10-2:55. To be announced.

y: Sec. 1 M W 11:00-12:15. J. Lad.

Sec. 2 Tu Th 2:40-3:55. N. Latham.

Sec. 3 Tu Th 10:35-11:50. N. Latham. H

PHI V 1101x. The History of Philosophy: I.

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine.—C. Larmore.

3 points. M W 2:40-3:55. H

PHI V 1201y. The History of Philosophy: II. Exposition and analysis of the positions of the major philosophers from Aquinas through Kant.—C. Larmore.

3 points. M W 2:40-3:55. H

PHI V 3121y. Plato.

An introduction to the leading concepts and doctrines of Plato's philosophy through analysis of selected texts in logic, physics, psychology, and metaphysics.—Instructor to be announced.

3 points. M W 1:10-2:25. H

PHI V 3131y. Aristotle.

An introduction to the leading concepts and doctrines of Aristotle's philosophy through analysis of selected texts in logic, physics, psychology, and metaphysics. — Instructor to be announced.

3 points. Not offered in 1990-91.

PHI BC 3161. Greek Philosophy.

3 points. Not offered in 1990-91.

Philosophy

PHI V 3222x. Descartes, Spinoza and Leibniz.

A systematic analysis of concepts central to seventeenth-century Rationalism. The focus is on problems in epistemology and metaphysics discussed in relation to logical theory and philosophy of science.—R. Tragesser.
3 points. M W 11:00-12:15. H

PHI V 3240y. Locke, Berkeley and Hume.

A study of the principal topics of British Empiricism. Problems to be discussed include: sense perception, innate ideas, foundations of empirical knowledge, substance and cause, personal identity and freedom of the will. — R. Myers.
3 points. M W 11:00-12:15. H

PHI V 3251x. Kant.

An intensive reading of Kant's *Critique of Pure Reason*.
3 points. Not offered in 1990-91.

PHI V 3270y. Nineteenth Century Philosophy.

3 points. Not offered in 1990-91.

PHI V 3301y. Twentieth Century Philosophy.

Major philosophical movements of the 20th century in their cultural contexts: pragmatism, logical positivism, linguistic analysis, phenomenology, existentialism and structuralism. Readings from James, Bergson, Moore, Russell, Wittgenstein, Husserl, Heidegger, Derrida, Sartre, and Dewey.—D. Sidorsky.
3 points. M W 11:00-12:15. H

PHI BC 3352x. Recent European Philosophy.

Phenomenological themes from the writings of Edmund Husserl and Martin Heidegger, and their treatment by later thinkers such as Levinas and Derrida.—R. Tragesser.
3 points. Tu Th 10:35-11:50. H

PHI V 3364x. Wittgenstein.

An examination of the relation of the philosophical views of Wittgenstein to those of Frege and Russell, and a discussion of the central problems in his works as, e.g., rule-following, privacy, psychological concepts, myths, identity, logical form.— S. Larson.
3 points. Tu Th 2:40-3:55. H

PHI V 3411x. Formal Logic A.

Deductive logic: basic concepts and techniques of propositional and quantificational logic. Treatment by these methods of arguments in ordinary language. Relations of the concepts of truth, proof, interpretation and validity. The relation of logic to science. — J. Collins.

This course may not be taken for credit in addition to PHI V 3414 or G 4415. In this course greater emphasis is put on the relation of logic to actual language and on applications of logic to philosophy or science. Either course meets the requirement in logic for a major in philosophy. No prerequisites.
3 points. Tu Th 9:10-10:25. H

PHI V 3415y. Formal Logic B.

Prerequisite: One philosophy course or permission of the instructor. A student may not take both Formal Logic A and Formal Logic B for credit.
3 points. Not offered in 1990-91. H

PHI V 3483y. Theory of Meaning.

Consideration of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Austin, Davidson and others. — S. Larson.
3 points. Tu Th 2:40-3:55. H

PHI V 3501y. Theory of Knowledge.

Contemporary issues in the theory of knowledge and their historical sources.—I. Levi.
3 points. Tu Th 2:40-3:55. H

PHI V 3576x. Physics and Philosophy.

Philosophical problems at the foundations of quantum theory especially those having to do with the uncertainty relations and the nature of quantum mechanical indeterminacy. Exploration of a variety of philosophical approaches including the many-worlds interpretation and hidden variable theories. — D. Albert.
3 points. M W 2:10-3:25. H

PHI V 3601x. Metaphysics.

Systematic treatment of some major metaphysical topics, e.g., necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors. — B. Berofsky.
3 points. M W 2:40-3:55. H

Philosophy

PHI V 3651y. Philosophy of Mind.

Contemporary issues in the philosophy of mind and their historical sources.—N. Latham.

Limited enrollment.

3 points. Tu Th 1:10-2:25. H

PHI V 3680x. Attitude, Action and Reason.

The roles of reason and causality in understanding human actions.—N. Latham.

3 points. Tu Th 10:35-11:50.

PHI V 3701x, y. Moral Philosophy.

Introduction to the central problems of moral philosophy; alternative moral ideals and their philosophical formulations; the status and justification of moral judgments; reasons for action; rights, obligation in the issue of justice.

Limited enrollment in Autumn Term. No prerequisites.

3 points.

x: Tu Th 2:40-3:55. M. Mothersill.

y: Tu Th 2:40-3:55. D. Sidorsky. H

PHI V 3715y. Topics in Moral Philosophy.

Further examination of some central problems in moral philosophy.—R. Myers.

3 points. Tu Th 10:35-11:50. H

PHI V 3720x. Ethics and Medicine.

Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans, justice and access to health care, human genetics. — J. Arras.

3 points. Tu 1:00-4:00. H

PHI V 3751y. Social and Political Philosophy.

The main strands of modern political thought. Readings selected from: Hobbes, Locke, Hume, Rousseau, Marx, Mill and Rawls.—D. Sidorsky.

3 points. M W 11:00-12:15. H

PHI V 3765y. Ethics and International Affairs.

3 points. Not offered in 1990-91. H

PHI V 3780y. Philosophy of Law.

An investigation of the uses of law. Among the topics covered are the nature of harm, paternalism, welfare legislation, obscenity,

deterrence and retributive theories of punishment, justification and excuse, the insanity defense, the death penalty, the relation of law to morality.—F. Kamm.

3 points. F 1:00-4:00. H

Environmental Science-Philosophy ESP BC 3025y. Ethics and the Environment.

Philosophic examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory. — E. Katz.

No prerequisites.

3 points. Tu Th 2:40-3:55. H

PHI V 3758x. Philosophy of Education.

Drawing on classical and contemporary authors, discussion will focus on the question of the conditions requisite for producing free and responsible individuals. Readings from Plato, Augustine, Rousseau, Emerson, Dewey and others. — R. Myers.

No prerequisites.

3 points. Tu Th 1:10-2:25. H

PHI V 3801y. Aesthetics.

Systematic inquiry into major problems in the philosophy of art: Idealism (Hegel), Nietzsche, Freud; Modernity and Formalism (Kant); and Imitation Theory (Plato and Aristotle). — R. Kuhn.

3 points. Tu Th 2:40-3:55. H

PHI V 3803y. The Concept of Beauty.

An introduction to aesthetics by way of an attempt to develop a systematic theory of the beautiful in nature and in art. The theory is tested against critical findings in fields of music, literature, dance, and the visual arts. Readings from classical and contemporary sources. — M. Mothersill.

3 points. M W 11:00-12:15. H

PHI V 3850x. Concept of Literature.

3 points. Not offered in 1990-91. H

PHI V 3881x. The Idea of God.

Philosophical conceptions of God, proofs of the existence of God, and other topics in the philosophy of religion.—N. Latham.

3 points. Tu Th 1:10-2:25. H

Philosophy

PHI V 3925y. Skepticism.

The nature and purpose of skeptical argument. The skeptical tradition and its relation to contemporary philosophical discussion. Readings from Sextus Empiricus, Montaigne, Descartes, Hume, Kant, Moore, Wittgenstein, Kripke and others.—J. Collins.

3 points. To be arranged.

PHI BC 3288x, 3289y. Majors' Seminar.

Intensive study of selected philosophical classics; discussions, oral reports, and term papers. — x: S. Larson, y: R. Tragesser.

Enrollment limited to philosophy majors.

4 points. W 4:10-6:00. Conference to be arranged. *H*

PHI BC 3399x, 3399y. Supplementary Readings in Philosophy.

To be taken only with the consent of the instructor of the department.

Up to 4 points. Hours to be arranged.

PHI V 3753. Social Philosophy.

3 points. Not offered in 1990-91.

PHI V 3657. Philosophical Idealism and Psychoanalytic Theory.

3 points. Not offered in 1990-91.

Philosophy-Women's Studies PWS

PHI BC 3147. Philosophical Issues of Feminist Theory.

3 points. Not offered in 1990-91

COURSES OFFERED AT REID HALL IN PARIS

The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Philosophy H 3550x, y. Aspects of Contemporary French Thought: Body, Machine, and Philosophical Space.

For students in French Studies in the Humanities and Social Sciences Program.

An overview of recent developments in French philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought. Attendance at selected lectures by Jacques Derrida at the College de Philosophie and Gilles Deleuze at the Université de Paris VIII. — A. Pons.

Recommended preparation: an introductory course in philosophy. 3 points.

Physical Education

Office: 209 Barnard Hall

Telephone: 854-2085

Senior Associates

Sharon Everson, Jean Follansbee (Chair)

Associates

Priscilla Gilmore, Nancy Klitsner, Wendy Marks, Mary Beth Murray, Russell Spicer

Requirement

Students admitted as first-year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation.

Health Status

Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of Dr. Diane Killip, Staff Physician, Health Services, Lower Level Brooks.

Curriculum

The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Modern dance, ballet, tap, and jazz dance courses are offered under the auspices of the Dance Department and may be taken to fulfill the Physical Education requirement. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals

The Physical Education Department offers an extensive intramural program which features badminton, basketball, bowling, fencing, indoor soccer, wiffle ball, tennis, volleyball. The program emphasizes participation in a friendly, competitive atmosphere; activities are open to all members of the college community. For more information contact Russ Spicer, Director of Intramurals, 206 Barnard Hall, or call 854-6940.

Recreation

Recreational use of the gymnasium, swimming pool, track, weight room, and bowling alleys is available at specified times. All students, faculty, and staff are encouraged to participate and use the facilities.

Intercollegiate Athletics

The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition students are eligible to qualify for state, regional and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact the Associate Director of Athletics at the Columbia-Dodge Fitness Center, 854-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration

Registration for the Autumn Term takes place in the gymnasium starting the Tuesday after Labor Day. Registration for the Spring Term takes place starting Friday

Physical Education

before academic classes begin in January. *After confirming registration with the Physical Education Department* students should include the Physical Education course by number, section, title and I.D. number on final programs filed with the Registrar.

Cross Registration

An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in selected Columbia courses. **Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course.** Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. **Other Columbia University students must receive permission from the Physical Education Department to register before filing their final program with the Registrar.**

Courses

Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning, Advanced Beginning, Intermediate.

COURSES OF INSTRUCTION

AQUATIC COURSES

PED BC 1120x, y. Beginning Swimming.

Development of confidence and safety skills in the water. Introduction of front crawl and elementary backstroke.

PED BC 1121x, y. Advanced Beginning Swimming.

Review of safety skills, front crawl and elementary backstroke, Introduction of breaststroke.

PED BC 2122x, y. Intermediate Swimming.

Further development of the front crawl, elementary backstroke, and breaststroke. Introduction of basic rescue techniques, breaststroke, backcrawl and open turns.

PED BC 2124y. Aqua-Aerobics.

Combination of various swimming strokes and water exercises used to develop cardiovascular endurance and muscle tone. Intermediate swimming skills required.

PED BC 3125x, y. Lap Swim.

Students determine an individual training program with the instructor on a contract basis.

Not open to first year students. Swimming test for class admission given at first class meeting.

PED BC 3129y. Water Safety Instructor Course.

Review of swimming skills and instruction in teaching techniques for preschool through swimmer courses and elementary forms of

rescue; leads to American Red Cross certification.

Swimming test for class admission given at first class meeting.

PED BC 3131x. Lifeguard Training and First Aid.

Pool management, preventive lifeguarding, swimming and equipment rescues; leads to two American Red Cross certifications.

Swimming test for class admission given at first class meeting.

PED BC 3132y. Lifeguard Training Instructor.

Review of lifeguard training skills and instruction in teaching techniques; leads to American Red Cross certification.

Current CPR, First Aid and Lifeguard Training certificates required.

SPORTS COURSES

PED BC 1350x, y. Beginning Archery.

Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 3898x, y. Varsity Team-Archery.

Practice and intercollegiate competition in Indoor Target Archery.

Permission of coach required.

For other varsity teams see Columbia course offerings.

PED BC 1353x, y. Badminton.

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

Physical Education

PED BC 1357x, y. Beginning Bowling.

Basic techniques of spot bowling and spare conversion; scoring and game play.

PED BC 2358x, y. Self-Paced Advanced Bowling.

Individualized program of bowling instruction and play, set up on a contract basis.

Completion of Beginning Bowling with a minimum average of 100 or permission of the instructor required. Bowling test for class admission given at first class meeting.

PED BC 1360x, y. Beginning Fencing.

Basic offensive and defensive foil techniques; footwork; rules and officiating.

PED BC 1361y. Advanced Beginning Fencing.

Expansion of basic skills and tactics; use of electrical apparatus; intraclass tournaments and development of officiating skills.

Completion of Beginning Fencing or permission of the instructor required.

PED BC 1363y. Indoor Soccer.

Fundamentals of soccer skills including dribbling, passing, marking and offensive and defensive strategies.

PED BC 1364x, y. Beginning Tennis.

Forehand and backhand stroke development. Introduction to the serve; rules and scoring.

PED BC 1365x, y. Advanced Beginning Tennis.

Refinement of forehand, backhand, and serve; scoring; simulated games. Introduction of the volley and doubles play.

PED BC 2366x, y. Intermediate Tennis.

Further development of strokes, service return; net play; doubles play. Intra-class tournament.

PED BC 1470x, y. Volleyball.

Introduction of forearm pass, overhead fingertip pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

FITNESS COURSES

PED BC 1582x, y. Aerobics.

Combination low/moderate impact cardiovascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1359x, y. Self-Paced Cycling.

Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis.

Completion of one physical education course required. Cycling test for class admission given at first class meeting.

PED BC 1583x, y. Beginning Fitness.

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardiovascular efficiency.

PED BC 1584y. Advanced Beginning Fitness.

Continuation of beginning fitness; designed for the individual at a moderate level of fitness.

PED BC 2584y. Intermediate Fitness.

Intensive fitness program for students who have taken BC 1583 and/or BC 1584 or who have been engaged in a vigorous conditioning program.

PED BC 1585x, y. Beginning Weight Training.

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs with an emphasis on lifetime fitness.

PED BC 1586y. Advanced Beginning Weight Training.

Continuing of beginning weight training; emphasis on free weights and individualized training.

Beginning Weight Training or permission of the instructor required.

PED BC 1688x, y. Stress Management and Fitness.

Methods of releasing muscular tension including breathing exercises, progressive relaxation techniques and massage; variety of conditioning programs for the improvement of flexibility, strength and cardiovascular efficiency.

SPECIAL COURSES

PED BC 1690x, y. Beginning Self Defense.

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

Physical Education

PED BC 1693x, y. Beginning Yoga.

Basic Hatha yoga positions; body awareness; relaxation; breathing exercises.

PED BC 1695x, y. Advanced Beginning Yoga.

Breathing exercises, basic standing poses and inverted postures — plough, shoulderstand, headstand, handstand.

PED BC 1750 y. New Games.

Cooperative games and initiatives for fitness and fun.

PED BC 2799x, y. Independent Study.

Enrollment in a course of instruction.

Not open to first year or transfer students.

Approval of Department required. Limited to one semester of credit.

DANCE

See Dance Department (page 105) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement.

Courses offered are:

Ballet — Beginning, Low Intermediate, Intermediate, Advanced.

Jazz — Low Intermediate, Intermediate.

Modern — Beginning, Low Intermediate, Intermediate.

Tap — Beginning, Intermediate.



Physics

Office: 505 Altschul Hall

Telephone: 854-5102

Professor

Richard M. Friedberg (Chair)

Assistant Professors

Timothy Halpin-Healy, Laura Kay, Leslie J. Root¹, Sophie Yancopoulos (Visiting)

Other officers of the University offering courses listed below:

Professors

Norman Christ, Gerald Feinberg, Paolo Franzini, Sven Hartmann, David Helfand, T.D. Lee, Wonyong Lee, Joaquin Luttinger, Alfred Mueller, Shoji Nagamiya, Robert Novick, Malvin Ruderman, Frank Sciulli, Michael Shaevitz, Jacob Shaham, Eric Weinberg

Adjunct Professors

Allan Blaer, Bruce Knapp

Associate Professors

Jules Halpern, Michael Tuts, Yasutomo Uemura

Assistant Professors

Elena Aprile, Frank Brown, Allen Caldwell, Philip Kaaret, Christopher Martin, Velayudhan Nair, Peter Rowson, Richard Seto, Stephen Smith, William Zajc

¹Absent on leave Autumn Term

The study of physics ranges from disciplined preparation for professional work in physics itself, or a basic education in physics necessary for the study of, or work in, other sciences and medicine, to a more general familiarity with physics and its historical development as part of contemporary culture.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum. The faculty represents a wide range of expertise, with special strength and distinction in elementary-particle and theoretical physics.

The department offers five distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. C 1001-C 1002, *Elementary Physics*, and V 1305-V 1306, *Physics in Historical Perspective*, are intended for liberal arts students whose aim is to achieve some qualitative understanding of science. V 1305-V 1306 provides a more rigorous introduction and satisfies the Barnard Laboratory Science requirement.
2. Either V 1003, V 1004, *General Physics*, or V 1103, V 1104, *General Physics*, is satisfactory preparation for medical school. Both cover the same material, but V 1103, V 1104 is somewhat more intensive and uses calculus; V 1003, V 1004 is not recommended as a foundation for more advanced work in physics.
3. A student with a serious interest in the physical sciences should enroll in the Autumn Term in BC 1205, *Physics of the Early Universe*, which begins a four-term sequence (BC 1206, BC 1207) leading to more advanced courses. Students should then take BC 1206 in the Spring Term. BC 1206-1207 is also a suitable course for the physics requirement for students majoring in a science other than physics, including premedical students.
4. Alternatively, a student with a serious interest in the physical sciences may enroll in the Autumn Term in C 1406, *General Physics I, Mechanics*, and the accompanying laboratory course W 1906, which begins a four-term sequence (C 1407, C 1011, C 1012, *General Physics II-IV*, or the corresponding honors courses C 1607, C 1111, C 1112) leading to more advanced courses. Students should then take W 1907 concurrently with C 1407 or C 1607 in the Spring Term, or BC 1207 in the following Autumn Term.
5. First year students with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C 1021,

Physics

C 1022, *General Physics*, which replaces all four terms of the sequence starting with BC 1205 or C 1406. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

The following courses may be substituted for each other:

BC 1206, F 1006, and C 1406 with W 1906;
BC 1207, F 1007; C 1407 with W 1907, and C 1607 with W 1907;
BC 1208, C 1011, C 1111, and F 1011;
C 1012, C 1112, and F 1012.

There is a laboratory fee of \$25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE MAJOR

The courses required for a major in physics are:

Either:

BC 1206y, or C 1406x with W 1906x, or F 1006y; BC 1207x, or C 1407y (or C 1607y — honors section) with W 1907y, or F 1007x; BC 1208y or C 1011x or C 1111x or F 1011y.

or:

C 1021x and C 1022y.

All 1000-level courses must be taken with laboratory. In addition, students are strongly urged to take BC 1205x.

Also:

W 3003

W 3007, W 3008

W 3021

W 3022

W 3083

Mechanics

Electricity and Magnetism, Waves and Optics

Quantum Physics

Statistical Physics

Electronics Laboratory

and 4½ points of W 3081, *Intermediate Laboratory Work*.

Calculus IS, IIS, and IVS or equivalent are required, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy, geology, or biology may be substituted.

In addition, students planning to study physics in graduate school are strongly urged to take:

G 4003

G 4021

G 4022

W 3072

Lagrangian Mechanics

Quantum Mechanics

The Physics of Atoms, Solids, Nuclei, and Particles

Seminar in Current Research.

The major examination consists of the Graduate Record Examination in physics.

REQUIREMENTS FOR THE MINOR

Courses required for the minor are BC 1205; BC 1206, or C 1406 with W 1906, or F 1006; BC 1207, or C 1407 (or C 1607) with W 1907, or F 1007; BC 1208 or C 1011 or C 1111 or F 1011; and one 3-point course at the 3000 level. A second 3-point course at the 3000 level may be substituted for BC 1205.

Physics

COURSES OF INSTRUCTION

PHY V 1305x, 1306y. Physics in Historical Perspective.

Introduction to classical and modern physics with some discussion of the historical development of physical theories. The development of physical understanding from Aristotle to Einstein and the present. — S. Yancopoulos.

Oriented primarily to non-science students, who wish to gain a fairly rigorous understanding of physics. No previous background in physics is assumed, but a willingness to review and use elementary algebra is required.

Enrollment limited to 60 students.

Laboratory 3 consecutive hours weekly, times to be arranged during first class.

4½ points. Lecture Tu Th 1:10-2:25.

PHY V 1405x. Physics in Historical Perspective.

Course V 1305x, but without the laboratory.
3 points. Lecture Tu Th 1:10-2:25.

PHY C 1001x, 1002y. Elementary Physics.

Introduction to physics for students with no previous background. Selected topics in classical and modern physics. — D. Helfand.
This course uses very little mathematics. It does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students.

3 points. Lecture M W 1:10-2:25.

PHY V 1003x, 1004y. General Physics.

Mechanics, heat, electricity, magnetism, optics, and modern physics. — To be announced (x), To be announced (y).

Calculus is not a prerequisite for this course.

4 points. Lecture M W 11:00-12:15.

Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00. Laboratory sections are arranged after the first class meeting.

PHY F 1003x, 1004y. General Physics.

Same topics as V 1003, V 1004. — B. Burdick, C. Martin.

4 points. Lecture Tu Th 7:40-8:55.

Laboratory 3 consecutive hours to be arranged.

PHY F 1003y. General Physics.

Same topics as V 1003.—B. Burdick.

4 points. Lecture M W 6:10-7:25.

Laboratory 3 consecutive hours to be arranged.

PHY W 1003y, 1004x. General Physics.

Same topics as V 1003, V 1004.—A. Caldwell.

4 points. Lecture M W 2:40-3:55.

Laboratory 3 consecutive hours to be arranged.

PHY V 1103x, 1104y. General Physics.

Same topics as V 1003, V 1004 discussed at a somewhat higher level using calculus. — P. Kaaret.

Prerequisite: Calculus I.

4 points. M W 11:00-12:15.

Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00.

Laboratory sections are arranged after the first class meeting.

Physics BC 1205x. The Early Universe.

Big Bang cosmology, quantum phenomena, atomic spectral lines, Bohr model of hydrogen, galactic recession, expansion of the universe, curved spacetime, cosmic microwave radiation, primordial nucleosynthesis, grand unified theories, elementary particles, fate of the cosmos, special relativity, time dilation, twin paradox.—T. Halpin-Healy.

This course is meant to expose students, particularly first-year Barnard women contemplating a possible major in the sciences, to the most exciting developments in 20th century physics. No knowledge of calculus is necessary, nor any previous study in physics, only a willingness to employ algebra, geometry and trigonometry to assist one's critical thinking about subtle scientific issues.

Enrollment limited to 27.

4½ points. Tu Th 10:35-11:50. Laboratory

hours to be arranged.

Physics BC 1705x. The Early Universe.

Same as PHY BC 1205 but without laboratory.—T. Halpin-Healy.

3 points. Lecture Tu Th 10:35-11:50

PHY BC 1206y. Physics I: Mechanics.

Fundamental laws of mechanics. Kinematics, Newton's Laws, work and energy, oscillations, gravitation, conservation laws, collisions, rotation. — T. Halpin-Healy.

Corequisite: Calculus I or the equivalent.

4½ points. Tu Th 10:35-11:50. Laboratory hours to be arranged.

Physics

PHY BC 1207x. Physics II: Electricity and Magnetism.

Charge, electric field, and potential. Gauss' Law. Circuits: capacitors and resistors. Magnetism and electromagnetism. Induction and inductance. Alternating currents. Maxwell's equations, waves. — T. Halpin-Healy.

Prerequisite: Physics BC 1206y or the equivalent. *Corequisite:* Calculus II.

3 points. Offered Autumn 1991.

Physics BC 1208y. Physics III: Waves, Optics and Quantum Physics.

Study of wave phenomena, optics, and introductory quantum physics: mechanical, sound, and light waves; geometrical optics; interference and diffraction; quantum phenomena; atomic spectra; Schrodinger equation.—L. Root.

Prerequisites: Physics BC 1206y, 1207x or equivalent. *Corequisite:* Calculus III.

3½ points. Tu Th 9:10-10:25. Laboratory hours to be arranged.

Physics BC 1708y. Physics III: Waves, Optics and Quantum Physics.

Lectures of BC 1208y, without the laboratory.

Prerequisite: Physics BC 1206y and BC 1207x or equivalent. *Corequisite:* Calculus III.

3 points. Lecture Tu Th 9:10-10:25.

PHY C 1406x. General Physics I. Mechanics.

Fundamental laws of mechanics; kinematics, dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics, oscillations, gravitation.

Corequisite: Calculus I or the equivalent.

3 points.

Section 1 M W F 9:00-9:50. A. Blaer.

Section 2 Tu Th 10:35-11:50. S. Ritz.

PHY C 1407y. General Physics II. Electricity and Magnetism.

Electrostatics: direct currents; electromagnetism; alternating currents.— Instructor to be announced.

Prerequisite: C 1406. *Corequisite:* Calculus II or the equivalent.

3 points. Tu Th 10:35-11:50.

PHY W 1906x, 1907y. Physics Laboratory.

Experiments in mechanics, electricity, and magnetism.—Instructor to be announced.

W 1906x must be taken concurrently with C 1406x, and W 1907y must be taken

concurrently with either C 1407y or C 1607y. 1 point.

Laboratory 3 consecutive hours every other week to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th F 4:10-7:00.

Introductory demonstration lecture 1 hour in alternate weeks.

Section 1 Tu 3:10-4:00.

Section 2 W 4:10-5:00.

PHY C 1011x. General Physics III. Optics and Thermodynamics.

Acoustical waves; light waves; polarization; geometrical optics; interference and diffraction of light; fluids; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases. — R. Seto.

Prerequisite: F 1006, BC 1206, or C 1406.

Corequisite: Calculus III.

3½ points. Lecture Tu Th 9:00-10:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

PHY C 1012y. General Physics IV. Modern Physics.

Quantum and relativistic effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles. — R. Seto.

Prerequisites: C 1011 and C 1407 or the equivalent.

3½ points. Lecture Tu Th 9:00-10:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

PHY C 1607y, C 1111x, C 1112y. General Physics II-IV.

Honors sections of C 1407y, C 1011x, C 1012y, respectively. — Instructor to be announced.

Prerequisites: See C 1407y, C 1011x, C 1012y; also, permission of the instructor.

C 1607y: 3 points; C 1111x and C 1112y: 3½ points.

C 1607y: Tu Th 10:35-11:50.

C 1111x: Tu Th 9:00-10:15.

C 1112y: Tu Th 9:00-10:15.

PHY F 1006y, F 1007x, F 1011y, F 1012x General Physics I-IV.

S. Smith, Y. Uemura, J. Halpern, C. Martin.

3½ points. M W 4:40-5:55.

Laboratory 3 hours every other week.

Hours to be arranged after first class meeting.

PHY C 1021x, 1022y. General Physics.

Mechanics, heat, electricity, magnetism, and light. — N. Christ.

Prerequisite: Advanced placement in mathe-

Physics

matics or some knowledge of differential and integral calculus and permission of the departmental representative. (A special placement meeting is held during Orientation Week.)

4 points. Lecture Tu Th 10:35-11:50.

Laboratory 3 hours to be arranged at the first class meeting.

PHY W 3003x. Mechanics.

Newtonian mechanics. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. Relativistic mechanics. — M. Shaevitz.

Prerequisites: General physics and integral calculus.

3 points. M W 11:00-12:15.

PHY W 3007y. Electricity and Magnetism.

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansions. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity. — A. Blaer.

Prerequisites: C 1407 or the equivalent, and differential and integral calculus.

3 points. M W 11:00-12:15.

PHY W 3008x. Electromagnetic Waves and Optics.

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction. — W. Zajc.

Prerequisite: W 3007.

3 points. M W 9:35-10:50.

PHY W 3021x. Quantum Physics.

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance. — E. Weinberg.

Prerequisite: C 1012 or C 1022 or the equivalent.

3 points. Tu Th 9:00-10:15.

PHY W 3022y. Thermal and Statistical Physics.

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors. — P. Rowson.

Prerequisite: W 3021x.

3 points. Tu Th 9:00-10:15.

PHY W 3072y. Seminar in Current Research Problems.

Detailed study of a selected field of active research in physics; motivation techniques, and results obtained to the present, as well as the difficulties and unsolved problems. — Instructor to be announced.

Permission of the department representative required. Open only to senior physics majors. 2 points. W 4:10-5:25.

PHY W 3081x, y. Intermediate Laboratory Work.

The laboratory has available 12 individual experiments, of which two are required for 1½ points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics. — B. Knapp, M. May.

For junior and senior physics majors. Other majors require the instructor's permission. May be repeated for credit by performing different experiments.

1½ points. M or F 1:10-5:00.

PHY W 3083x, y. Electronics Laboratory.

Experiments in solid state electronics, with introductory lectures. — P. Franzini.

Permission of the instructor required.

Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.

2 points. M W 1:00-4:00.

PHY V 3500x, y. Supervised Readings in Physics.

Readings in a selected field of physics under the supervision of a faculty member. Written reports and periodic conferences with the instructor. — Staff.

3 points.

Prerequisite: written permission of the faculty member who agrees to act as supervisor and

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the permission of the departmental representative.

PHY V 3900x, y. Supervised Individual Research.

For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete. — Staff.

Permission of the department representative required.

1 to 5 points a term.

PHY G 4003y. Lagrangian Mechanics.

Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes. — J. Luttinger.

Prerequisites: W 3003 or the equivalent, and differential and integral calculus.

3 points. M W 9:35-10:50.

PHY G 4021x. Quantum Mechanics.

The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically-symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms. — R. Novick.

Prerequisites: W 3003, W 3007, W 3021.

3 points. Tu Th 10:35-11:50.

PHY G 4022y. The Physics of Atoms, Solids, Nuclei, and Particles.

Time-independent and time-dependent perturbation theory. Scattering theory. Selected phenomena from each of atomic physics, solid-state physics, and elementary particle physics will be described and then interpreted using quantum mechanical models. — Instructor to be announced.

Prerequisite: G 4021.

3 points. Tu Th 10:35-11:50.

Astronomy-Physics ASP V 1900x, y. Seminar in Contemporary Physics and Astronomy.

Lectures on current areas of research with discussions of motivation, techniques, and results, as well as difficulties and unsolved

problems. Each student submits a written report on one field of active research. — Instructor to be announced.

1 point. Th 12:00-1:00.

Prerequisite or corequisite: any 1000-level course in the Physics or Astronomy Department.

ASTRONOMY COURSES

PHY V 1753x. Introduction to Astronomy I.

An introduction to astronomy intended primarily for nonscience majors.—W. Van Der Ween.

Recommended preparation: a working knowledge of high school algebra.

Suggested parallel laboratory course: AST C 1903x.

3 points. Lecture and lab. Tu Th 2:40-3:55.

PHY V 1754y. Introduction to Astronomy II.

An introduction to astronomy intended primarily for nonscience majors.—L. Kay.

Recommended preparation: a working knowledge of high school algebra.

Suggested parallel laboratory course: AST C 1904y.

3 points. Tu Th 2:40-3:55.

AST C 1403x. Earth, Moon, and Planets.

The overall architecture of the solar system. Motions of the celestial sphere. Time and the calendar. Major planets, the earth-moon system, minor planets, comets. Life in the solar system and beyond.—Instructor to be announced.

Recommended preparation: a working knowledge of high school algebra.

Suggested parallel laboratory course: AST C 1903x.

3 points. Tu Th 1:10-2:25.

AST C 1404y. Stars, Galaxies, and Cosmology.

Distances to, and fundamental properties of, nearby stars; nucleosynthesis and stellar evolution; novae and supernovae; galaxies; the structure of the universe and theories concerning its origin, evolution and ultimate fate.—Instructor to be announced.

Recommended preparation: a working knowledge of high school algebra.

Suggested parallel laboratory course: AST C 1904y.

3 points. Tu Th 1:10-2:25.

Physics

AST C 1903x. Earth, Moon, and Planets Laboratory.

This laboratory is for the lecture course PHY V 1753x, or AST C 1403x. The lecture course must be taken concurrently. —Instructor to be announced.

Corequisite: PHY V 1753x or AST C 1403x.

1 point. Hours to be arranged.

AST C 1904y. Stars, Galaxies, and Cosmology Laboratory.

This laboratory is for lecture course PHY V 1754y or AST C 1404y. The lecture course must be taken concurrently.—Instructor to be announced.

Corequisite: PHY V 1753x or AST C 1403x.

1 point. Hours to be arranged.

For description of other courses see the Columbia College Bulletin.

AST C 1203x. Introduction to Astrophysics I.

J. von Gorkom.

3 points. Tu Th 2:40-3:55.

AST C 1204y. Introduction to Astrophysics II.

K. Prendergast.

3 points. Tu Th 11:00-12:15.

AST C 3103x. Galaxies and the Interstellar Medium.

E. Shaya.

3 points. M W 1:10-2:25.

AST C 3104y. Cosmology.

D. Tytler.

3 points. M W 1:10-2:25.

AST C 3997x, AST C 3998y. Seminar and Research Course.

E. Shaya.

3 points. Hours to be arranged.

AST W 3461y. Order and Disorder in Nature.

E. Spiegel.

3 points. M W 2:40-3:55.

AST G 4001x. Astrophysics I.

K. Prendergast.

3 points. M W F 11:00-12:15.

AST G 4002y. Astrophysics II.

N. Baker.

3 points. M W F 11:00-12:15.



Political Science

Office: 417 Lehman Hall

Telephone: 854-8422

Professors

Demetrios Caraley (Janet H. Robb Professor and Chair), Dennis Dalton (Ann Whitney Olin Professor), Peter Juviler, Richard M. Pious

Assistant Professors

Leslie Calman (Departmental Representative), Michael Delli Carpini¹, Ester Fuchs, Brigitte Nacos, J. Phillip Thompson, Naomi Weinbenger

Instructors

Sanya Popovic, Judith Russell

Lecturers

Flora Davidson, Kathryn J. Rodgers

Adjunct Associate Professor

Michael Goldstein

Other officers of the University offering courses listed below:

Professors

David A. Baldwin, Thomas P. Bernstein², Seweryn Bialer, Douglas Chalmers, Gerald L. Curtis, Lewis J. Edinger, Julian H. Franklin, Charles V. Hamilton, Robert Jervis, Mark Kesselman², Robert Legvold, Andrew Nathan, Joseph Rothschild, Warner R. Schilling, Alan F. Westin

Associate Professors

Lisa Anderson, Helen Milner², Robert Shapiro, Jack Snyder¹

Assistant Professors

Gregory Gause², Harvey Goldman, David Johnston², Edward Mansfield, Alexander Motyl, David Spiro

¹ Absent on leave Spring Term

² Absent on leave 1990-91

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

- A. Political Science BC 3001 *Dynamics of American Politics*
- B. One of the following courses:
 - Political Science V 3505 *Comparative Politics*
 - Political Science V 3611 *International Politics*
 - Political Science BC 3013, BC 3014 *Political Theory*
- C. Two colloquia or other courses having a research paper among those courses designated by an asterisk (*); and
- D. Two semesters of research seminar for the thesis (see below).

Political Science

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, *both majors and concentrators are required to write a senior essay* as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Departmental approval must be granted for transfer courses used toward the major. Only three transfer courses may be counted.

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>
Two from the following courses:	
Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8202	<i>Colloquium on Congress and Policymaking</i>

Two semesters of research seminar for the thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, POS BC 3001y. Dynamics of American Politics.

Examination of the dynamics of the American political system at the national level including political participation elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary.—Staff.

Sign-up sheets for sections are posted outside 408 Lehman.

3 points. Credit is not granted for both this course and C 3305.

x: Sec. 1 M W 11:00-12:15. R. Pious.

Sec. 2 M W 2:40-3:55. J. Russell.

Sec. 3 Tu Th 10:35-11:50. M. Delli Carpini.

y: Sec. 1 M W 11:00-12:15. R. Pious. S

POS V 3505x, POS V 3505y. Introduction to Comparative Politics.

An introduction to major issues and theories in comparative politics.

3 points.

x: M W 6:10-7:25. P. Oldenburg.

y: Tu Th 10:35-11:50. P. Juviler. S

POS W 4311x. American Parties and Elections.

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties.—E. Fuchs.

3 points. M W 11:00-12:15. S

POS BC 3007x. Modern Political Movements.

Dynamics of movement politics in the twentieth century. Factual and moral analysis;

Political Science

case studies of Bolshevism, Indian nationalism, Nazism, and the women's movement.—L. Calman.

3 points. Tu Th 10:35-11:50. S

POS V 3313y. American Urban Politics.

Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems.—Instructor to be announced.

3 points. M W 2:40-3:55. S

POS V 3611x, POS V 3611y. International Politics.

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

x: M W 1:10-2:25. N. Weinberger.

y: M W 11:00-12:15. R. Jervis. S

POS BC 3012y. The United Nations in International Politics.

Role of international organizations in world politics. Issues focused on include arms control and disarmament nuclear proliferation and human rights as well as international trade and multinational corporations. Experiences of the League of Nations, the United Nations, the European Community, and other contemporary international and regional organizations are considered.

3 points. Not offered in 1990-91.

POS BC 3013x, 3014y. Political Theory.

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change.—D. Dalton.

Note: 3013x is a prerequisite for 3014y.

3 points. Tu Th 1:10-2:25.

***POS BC 3345y. Statistical Analysis of Politics and Policy.**

Use of the microcomputer, including Lotus spreadsheets, in analysis of problems in the political process and public policy; practical

applications in statistical analysis. — E. Fuchs.

Satisfies college-wide Quantitative Reasoning requirement.

Recommended prerequisite: BC 3001 or W 3305 and permission of the instructor.

3 points. Tu Th 10:35-11:50.

SPECIALIZED COURSES

AMERICAN GOVERNMENT AND POLITICS

POS V 3316x. The American Presidency.

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious.

Prerequisite: BC 3001 or the equivalent.

3 points. M W 1:10-2:25. S

POS BC 3322y. The American Congress.

Dynamics, organization, and policymaking processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.—M. Delli Carpini.

Prerequisite: BC 3001 or the equivalent.

3 points. M W 2:40-3:55. S

POS BC 3335x. Mass Media and American Democracy.

An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public. — M. Delli Carpini.

Prerequisite: BC 3001 or the equivalent.

3 points. Tu Th 2:40-3:55. S

POS BC 3325x. The Judicial Process.

Introduction to the American judicial system; origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, and controversies over judicial review and the commerce clause.

Prerequisite: BC 3001 or a course in American history.

Not open to students who have taken W 3399. 3 points. Not offered in 1990-91. S

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***POS BC 3326y. Colloquium on Civil Rights and Liberties.**

The uses and limitations of the judicial process to protect individual rights and affect public policy. Readings, discussion, and reports on selected topics including libel and the press, criminal procedure, equal protection, and ethics in government.—K. Rodgers.

Prerequisite: BC 3001 or equivalent and permission of instructor.

4 points. W 4:10-6:00. S

***POS BC 3333y. Colloquium on Policy Analysis.**

Theoretical aspects and practical applications of policy analysis. Topics include the policymaking process, and the roles and tools of policy analysis. Actual case studies will be used. Students will also simulate case studies for analytical purposes.—J. Russell.

Prerequisite: BC 3001 or equivalent and permission of instructor.

Enrollment limited to 18 students.

4 points. Tu 2:10-4:00. S

POS W 3399x. The Supreme Court and American Politics.

The role of the Supreme Court and the judicial process in American government. The use of litigation as an instrument of politics. Issues of property, liberty, equality, and due process as treated by the courts.—A. Westin.

Prerequisite: sophomore standing.

3 points. M W 11:00-12:15. S

POS W 3400y. Law and Politics of Civil Liberties.

The current law on the civil liberties and civil rights of citizens; and emerging issues of individual rights at the workplace, particularly in corporate employment.—A. Westin.

Prerequisite: Open only to juniors and seniors who have had a course in American government or constitutional law.

3 points. M W 11:00-12:15. S

POS V 3328y. Women in Politics.

Analysis of changes and continuities in the roles of women as they have been involved in and affected by American politics and public policy.—S. Parikh, K. Yatrakis.

3 points. Tu Th 2:40-3:55. S

***POS BC 3327x. Colloquium on the Content of American Politics.**

Readings, discussions and reports on changing cleavages and policy issues in American national politics since the 1960s.—B. Nacos.

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. M 4:10-6:00. S

***POS BC 3331x. Colloquium on American Political Decisionmaking.**

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition.—R. Pious.

4 points. Tu 2:10-4:00. S

***Urban Affairs UAF BC 3535x. Colloquium in Urban Administration and Management.**

Processes of administration and management in urban organizations. Executive leadership, decisionmaking, bureaucracy, budgeting and personnel.—J. Thompson.

Prerequisite: BC 3001 or V3313 or the equivalent.

Enrollment limited to 20 students.

4 points. Th 4:10-6:00.

Urban Affairs UAF 3537x. Workshop in Urban Administration and Management.

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week—J. Thompson.

Corequisite: Urban Affairs BC 3535.

2 points. Biweekly meeting to be arranged.

***POS G 8202y. Colloquium on Congress and Policymaking.**

Role of Congress in national policymaking. Influence of committees, party leaderships, staffs, the President, interest groups, and constituencies; case studies of congressional policymaking.—D. Caraley.

Prerequisites: BC 3001, junior standing and permission of the instructor.

Enrollment limited to 15 students.

3 points. Not offered in 1990-91.

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FOREIGN GOVERNMENTS AND POLITICS

***POS BC 3220x, y. Colloquium on Communism and Revolutionary Change.**

Nature, causes and consequences of revolution; approaches to revolution of the major types of workers' and peasants' revolutionism.—S. Popovic.

Prerequisites: V 3505, BC 3007, or BC 3221, or the equivalent. *Permission of the instructor required.*

4 points. x, y: M 2:10-4:00.

***POS BC 3221x. Colloquium on Politics and Human Rights in the U.S.S.R.**

Soviet conception of governing authority and human rights; the interaction of government and citizens.—P. Juviler.

Prerequisite: V 3505 or BC 3007, or Soviet politics or history. *Admission by application only.*

4 points. Not offered in 1990-91. S

POS BC 3422y. Social Democracy in Western Europe.

An examination of Western European politics with particular attention to social democratic movements. Among issues to be examined will be the place of Social Democratic parties in the West European party systems, their relations to Liberal and Communist parties as well as to trade unions, and the public policies these parties pursue when in power.

Prerequisite: V3505 or the equivalent.

3 points. Not offered in 1990-91.

***POS BC 3424y. Colloquium on Asian Politics.**

Comparative analysis of national experiences and political ideas and political development in India and China.—L. Calman.

Prerequisite: V3505 or permission of the instructor.

Enrollment limited to 20 students.

4 points. Not offered in 1990-91.

POS W 3517x Political Processes and Systems in Contemporary East Central Europe.

The politics of the Communist states of East Central Europe: their vicissitudes during World War II; the Communist takeovers and consolidations of power during the era of the Cold War; the dialectics of Stalinism and Titoism (1949-54); the purges and "mature" Stalinism; the attenuation of Stalin's legacy

by his Soviet heirs; the reassertion of East Central European nationalism and "domesticism" via the Polish October (1956), the Hungarian Revolution (1956), the Czechoslovak Spring (1968), the desatellizations of Romania and Albania (1960's and 70s) and the unresolved crisis of legitimacy in Poland and elsewhere (1980s); the generalized crisis of the region at the turn of the 1980s decade into the 1990s.—J. Rothschild.

3 points. Tu Th 9:10-10:25.

POS W 3502y. Political Change in the Third World.

Examination of the characteristics of politics of "peripheral" countries of Asia, Africa, and Latin America, with an emphasis on perspectives from the Third World. Theoretical analysis of why these characteristics emerged and prospects for their transformation.—P. Oldenburg.

3 points. M W 6:10-7:25. S

POS W 3018y. Authoritarianism and Democracy.

Analysis of why some countries have democratic regimes, and others authoritarian ones, and of patterns and causes of transition from one regime type to the other.—Instructor to be announced.

3 points. Hours to be arranged. S

POS W 3560y. Latin American Politics.

Political structures, conflict, and change in the region, including discussion of the politics in selected countries, patterns of regime change and the involvement of the United States.—D. Chalmers.

3 points. Tu Th 4:10-5:25.

POS G 4472x. Japanese Politics.

A survey of contemporary Japanese politics, focusing on political leadership, party organization and behavior interest group structures, patterns of national-local linkage, and clientelism. Emphasis on relating the Japanese experience to the general literature on these themes.—G. Curtis.

3 points. T 9:00-10:50.

One hour discussion sections to be arranged.

POS G 4487y. The Dynamics of Soviet Politics.

The role of Marxism-Leninism in Soviet politics; the role of the Communist party in Soviet government and society; problems of industrialization; stages of development and political change; the balance of political

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forces and pressure in the Soviet state. —A. Motyl.
3 points. Tu 9:00-10:50.

POS W 4842y. Conflicts and Conflict Resolution in the Middle East.

Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the Iran-Iraq war, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined.—N. Weinberger.

Prerequisite: V 3505 or V 3611 or permission of the instructor.

3 points. M W 1:10-2:25.

POS W 4445y. Politics in the Middle East and North Africa.

Comparative analysis of regime types, political development and political decay, nation state building and the role of political groups in the Middle East and North Africa.—L. Anderson.

3 points. Tu Th 10:35-11:50.

POS G 4471x. Chinese Politics.

Analysis of the Chinese political system, including institutions, political conflict, state-society relations, and policy implementation, with focus on the Maoist revolutionary era and reformist political processes since 1976.—A. Nathan.

3 points. W 11:00-12:50.

POS G 4420x. Politics in Advanced Capitalist Society: West Europe and the U.S.

Alternate approaches (including Marxist, post-Marxist, and corporatist) to understanding the political economy of advanced capitalism in West Europe and the United States. The relationship of liberal democracy and capitalist production. Historical and cross-national variations in ruling coalitions, state policies, and political conflicts. The crisis of the Keynesian welfare state and post-Keynesian developments.—M. Kesselmen.
3 points. Not offered in 1990-91.

POS G 4496y. Contemporary African Politics.

Nation-building in Black Africa: African socialism, the one-party system, and military intervention in politics. African international relations: neocolonialism, Pan Africanism,

neutralism, and nonalignment. The African revolution.—Instructor to be announced.

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. Hours to be arranged.

POLITICAL THEORY

***POS BC 3416y. Colloquium on Personality and Politics.**

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. — F. Davidson.

Permission of the instructor required.

Enrollment limited to 16 students.

4 points. Tu 2:10-4:00.

***POS BC 3423x. Colloquium on Nonviolence.**

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in 20th century America and Europe.—D. Dalton.

Prerequisites: BC 3013x, BC 3013y, and BC 3007x.

4 points. Not offered in 1990-91.

***POS BC 3433y. Colloquium on Concepts of Democratic Political Theory.**

The analysis of such central theoretical concepts in the great books of political theory as power, elitism, democracy, tyranny, liberty, justice, and force vs. morality. Throughout the course, these concepts will be related to the founding and operation of the American constitutional democracy.—D. Caraley.

Permission of the instructor required

4 points. Th 2:10-4:00.

S

***POS BC 3440x. Colloquium on Women in Western Political Thought.**

This course will examine the treatment of women in major traditions of Western political thought. Questions of women's "nature," their role in public life and in the private sphere will be explored. Primary sources will include Plato, Aristotle, Rousseau, Locke, Marx, and Engels.—L. Calman.

Prerequisite: Permission of the instructor.

4 points. W 2:10-4:00.

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POS W 4638x. Marxism.

Marx's economic, social, and political thought. The developments of Marxist theory in the 20th century. Readings from Hegel, Marx, Lenin, Luxemburg, Gramsci, Lukacs, Sartre, Merleau-Ponty, Habermas, and others.—H. Goldman.

3 points. Tu Th 2:40-3:55. S

POS W 3411x. Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State.

Leading political theorists in their historical contexts. The idea of the normally autonomous political community in Plato and Aristotle; the relationship of the Church or a spiritual community and the secular powers of the state in Christian political thought; the rise of modern notions of republicanism, constitutionalism, and the right of resistance in the Renaissance and the Reformation. Among the authors considered are Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, The Monarchomachs, and Bodin. —J. Franklin.

3 points. Tu Th 2:40-3:55. S

POS W 3412y. Introduction to the History of Modern Political Thought: From Hobbes to Marx.

Constitutional theory and the changing conceptions of politics in the republican and natural law traditions. Particular attention is paid to the rising theorization of civil society and to the place of political economy in the political thought of the 18th and early 19th century.—M. Gottsegen.

3 points. Tu Th 2:40-3:55. S

***POS W 3833x. Colloquium on Political Ideas.**

A study of the relationship between social theory and literature. Readings drawn principally from Nietzsche, Weber, and Mann.—H. Goldman.

Prerequisite: BC 3013, BC 3014 or equivalent, and permission of the instructor.

4 points. Tu 4:10-6:00.

INTERNATIONAL RELATIONS AND FOREIGN POLICY

***POS BC 3118x. Colloquium on Problems in International Politics.**

Readings, discussions, and presentations on selected problems in international politics. Topic for 1990-91 is Intervention in Civil Wars: Theories and cases from Indochina,

Latin America, Africa, and the Middle East.—N. Weinberger.

Prerequisite: Course V 3611 and permission of the instructor.

4 points. Th 2:10-4:00. S

***POS BC 3410y. Colloquium on Human Rights.**

Issues in the universalization of human rights, governmental sovereignty and obligations in domestic and foreign policy, "third generation" rights.—P. Juviler.

Open to juniors and seniors of Barnard and Columbia by application, November-December 1990, through Barnard Political Science office, Lehman Hall.

4 points. Sec. 1 Tu 2:10-4:00.

Sec. 2 W 2:10-4:00.

POS W 3630x. The Politics of International Economic Relations.

Introduction to the political and historical dimensions of the international economy. Political aspects of trade, monetary systems, foreign investment, aid, dependency, global interdependence.—D. Spiro.

3 points. Tu Th 2:40-3:55.

COURSES FOR MAJORS AND CONCENTRATORS ONLY

Political Science-Sociology PSS V 3994x-3995y. New York Area Undergraduate Research Program.

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists.—J. Russell.

Prerequisite: Enrollment limited to 10-15 students, selected by application only.

Junior or senior standing is required. Participation is for two terms.

3 points. Th 11:00-12:50.

POS W 4910x. Principles of Quantitative Political Research.

Introduction to the use of quantitative techniques in political science and public policy.

Political Science

Topics include descriptive statistics and principles of statistical inference and probability through analysis of variance and ordinary least-squares regression. Computer applications are emphasized.—R. Shapiro.
3 points. Tu Th 10:35-11:50.

POS W 4911y. Analysis of Political Data.

Multivariate and time-series analysis of political data. Topics include time-series regression, structural equation models, factor analysis, and other special topics. Computer applications are emphasized.—R. Shapiro.
3 points. Tu Th 10:35-11:50.

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring pre-registration students must apply for the section desired in the senior seminar.

POS V 3711x-3712y. Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and politics.—Staff.
4 points.

x: Section 1 Tu 4:10-6:00. D. Caraley.
Section 2 Tu 4:10-6:00. R. Pious.
Section 3 M 2:10-4:00. C. Hamilton.
Section 4 W 4:10-6:00. E. Fuchs.
Section 5 Th 4:10-6:00. M. Delli Carpini.
Section 6 Tu 2:10-4:00. R. Shapiro.
Section 7 W 4:10-6:00. R. Pearson.
y: Section 1 Tu 4:10-6:00. D. Caraley.
Section 2 Tu 4:10-6:00. R. Pious.
Section 3 Th 2:10-4:00. To be announced.
Section 4 W 4:10-6:00. E. Fuchs.
Section 5 Th 11:10-12:50 C. Cameron.
Section 6 W 4:10-6:00 R. Pearson.

POS BC 3761x-3762y. Research Seminar.

Discussion and conferences on the researching and writing of the senior essay.— Staff.
4 points.

Section 1 Th 4:10-6:00. P. Juviler.
Section 2 Tu 4:10-6:00. D. Dalton.
Section 3 Th 4:10-6:00. L. Calman.
Section 4 W 4:10-6:00. N. Weinberger
Section 5 M 4:10-6:00. S. Popovic.

BARNARD SUMMER IN WASHINGTON PROGRAM

Students will work four days a week on Capitol Hill at government agencies, at policy research institutes, and at other organizations. On Fridays, students will meet

for classes and for special events, such as question and answer sessions with policy-makers. The internships are integrated with two courses sponsored by the Department, *The Making of National Policy* (3 pts.) and *Summer Research in American Politics* (4 pts.).— M. Goldstein.

Summer 1991

Students may pick up an application for the program and a brochure describing the program and courses in the Department in September.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and School of International Affairs.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs bulletin available in 412 Lewisohn Hall.

Political Science H 3250x. French Foreign Policy since World War II.

For students in French Studies in the Humanities and Social Sciences Program.

The Fourth and Fifth Republics. Focus on a number of French preoccupations in the sphere of international relations, evolution of certain French attitudes and concerns, and contemporary French foreign policy. Topics include Vichy, the Communist Party, Jena Monney, the Indo-Chinese war, the Algerian War, de Gaulle's foreign policy, the French and Europe, de Gaulle and the Third World, Pompidou, Franco-American relations, d'Estaing, the political defense of France, and foreign relations in Socialist France.— C. Batsch; Pierre Mélandir.

3 points.

History-Political Science H 3240q. The State and Political Life in France from the Revolution to the Present.

For students in the Intensive French Language Program.

The continuity and discontinuity of French political life during the past two hundred years. Factors that assure the permanence of

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French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed.—C. Batsch; F. Bock.

3 points.

History-Political Science H 3260y. The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.

For students in French Studies in the Humanities and Social Sciences Program.

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention is given to moments of crisis: the

Dreyfus case, the thirties, World War II, the Algerian War, etc. Establishes a typology of intellectual attitudes in France by examination of a series of "case studies" and the tracing of the evolution of particular intellectual points of view.—J-F. Sirinelli.

3 points.

History-Political Science H 3820y. The Political Culture of Revolution in France: 1789 to the Present. Seminar

The on-going opposition between revolution and counter-revolution in France since 1789. The relevance of these two traditions for contemporary French political culture.—F. Bock.

Prerequisite: H 3240 or the equivalent.

4 points.



Psychology

Office: 415 Milbank Hall

Telephone: 854-2069

Professors

Peter Balsam¹, Lila Ghent Braine, Thomas Perera (Visiting), Rae Silver (Helene L. and Mark N. Kaplan Professor)

Associate Professors

Lawrence Aber, Robert Remez (Chair), Barbara S. Schmitter, Christina L. Williams²

Adjunct Associate Professors

Wendy McKenna, Corliss Parker, Carolyn A. Ristau

Assistant Professors

Larry B. Heuer, Jan Rabinowitz, Carolin Showers², John Vitkus¹

Adjunct Assistant Professors

Howard Andrews, Annette Berman, Maria Crisafi, Robin Garfinkel, William Gerin, Sandra F. Stingle

¹ Absent on leave Autumn Term

² Absent on leave 1990-91

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babblings of infants to creative acts of intellect, from sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, interpersonal behavior, the self-concept, and the resolution of conflict.

Common to all areas of psychology is a concern with adequate and appropriate method. The student will encounter many points of psychological evidence and methods of discovery, through lecture, laboratory, field courses, and various other offerings.

Opportunities are available for supervised research, teaching, and field experiences. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services provide a different sort of first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

To elect psychology as a major is good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and exposure to material the student may never again encounter formally.

Science requirement. Students desiring to fulfill the science requirement through psychology are encouraged to enroll in lab courses in their early years at Barnard, because seniors do not receive priority in lab placements. To ensure exposure to different methods in psychology, the two lab courses must be drawn from different groups in psychology. See the description of lab groups under *Requirements for the Major*.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$20 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 84.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

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Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer to fulfill major requirements. Although there is no AP credit in psychology, students may be exempted from introductory psychology with a satisfactory score on the CLEP test.

Students must take:

Psychology BC 1001

Introduction to Psychology (prerequisite for further psychology courses)

Psychology BC 1101

Statistics (preferably in the sophomore year)

Students must take one course from each group, of which two must be laboratory courses:

Group A

Psychology BC 1105

Psychology of Learning

Psychology BC 1130 or BC 1132

Human Learning and Memory

Group B

Psychology BC 1108 or 1110

Perception

Psychology BC 1117 or 1119

Physiological Psychology

Group C

Psychology BC 1123 or 1125

Psychology of Personality

Psychology BC 1136 or 1138

Social Psychology

Psychology BC 1127 or 1129

Developmental Psychology

Psychology BC 1156

Psychological Measurement

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, and BC 3599.

The three required courses in related disciplines should be distributed in this manner: Two courses in a science, at least one of which is accompanied by a 3-hour laboratory section (astronomy, biology, chemistry, environmental science, geology, or physics); and, one course from the cognate disciplines (anthropology, computer science, economics, linguistics, philosophy or sociology).

The eight required psychology courses must be taken for a letter grade; the grade must be C- or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

These revised requirements for the major are in effect for the class of '94 and following years. Other classes should consult the Barnard Catalogue 1989-90 for a description of the prior requirements. When in doubt, the student should consult with her major adviser, whom she should select when she decides to major in psychology. The student can select the appropriate adviser in consultation with the administrative assistant or the Chair.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1101 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

Psychology

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

PSY BC 1001x, y. Introduction to Psychology.

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.)—Staff.

This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section.

3 points.

x: Section 1 M W 2:40-3:55. C. Ristau.

Section 2 M W 6:10-7:25. J. Nordlie.

Section 3 M W 1:10-2:25. L. Heuer.

Section 4 Tu Th 9:10-10:25. A. Berman.

Section 5 Tu Th 10:35-11:50. W. Gerin.

Section 6 Tu Th 1:10-2:25. T. Perera.

Section 7 Tu Th 2:40-3:55. P. Cain.

y: Section 1 M W F 11:00-11:50. P. Cain.

Section 2 M W 2:40-3:55. W. McKenna.

Section 3 M W 6:10-7:25. J. Nordlie.

Section 4 Tu Th 10:35-11:50. L. Heuer.

Section 5 Tu Th 1:10-2:25. Rae Silver.

CORE COURSES

PSY BC 1101x, y. Statistics.

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments.

Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section. Preregistration.

4 points.

x: Section 1 M W 1:10-2:25. R. Garfinkel.

Recitation Tu or W 10:00-12:00.

Section 2 Tu Th 2:40-3:55. J. Rabinowitz.

Recitation M or Tu 11:00-1:00.

y: Section 1 M W 1:10-2:25. R. Garfinkel.

Recitation Tu or W 10:00-12:00.

Section 2 Tu Th 4:10-5:25. H. Andrews.

Recitation W 4:10-6:00.

PSY BC 1105x. Psychology of Learning.

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a

variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects.—J. Deich and assistants.

Prerequisite: BC 1001. Enrollment limited to 60 students. Preregistration. 4½ points.

Lecture Tu Th 10:35-11:50. Laboratory W Th F 1:00-4:00.

Laboratory fee \$20.

PSY BC 1108x. Perception.

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings.—R. Remez and assistants.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students. Preregistration.

4½ points.

Lecture M W 11:00-12:15.

Laboratory M or Tu 2:00-5:00.

Laboratory fee \$20.

PSY BC 1110x. Perception.

Same as BC 1108, but without the laboratory.—R. Remez.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 15 students. 3 points. M W 11:00-12:15.

PSY BC 1117y. Physiological Psychology.

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory.—C. Ristau and assistants.

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4½ points.

Lecture Tu Th 10:35-11:50.

Laboratory W 2:30-5:30 or Th 1:00-4:00.

Laboratory fee \$20.

PSY BC 1119y. Physiological Psychology.

Same as BC 1117y, but without laboratory.—C. Ristau.

Prerequisite: BC 1001. Enrollment limited to 20 students.

3 points. Tu Th 10:35-11:50.

PSY BC 1123y. Psychology of Personality

Surveys the principal approaches to personality and their implications for personality development, psychological adjustment, and everyday behavior. In laboratory students

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will participate in all stages of personality research: conceptualizing a personality construct, designing and administering tests, identifying individual differences, and carrying out a study.—J. Vitkus.

Prerequisite: BC 1001. Enrollment limited to 40 students.

4½ points.

Lecture: Tu Th 1:10-2:25.

Laboratory: M or Tu 9:00-12:00. Fee \$20.

PSY BC 1125y. Psychology of Personality.

Same as BC 1123y but without laboratory.—J. Vitkus.

Prerequisite: BC 1001 or permission of the instructor.

3 points. Tu Th 1:10-2:25.

PSY BC 1127x, y. Developmental Psychology.

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 44 students.

Preregistration.

4½ points.

x: L. Braine and assistants.

y: M. Crisafi and assistants.

Lecture M W 1:10-2:25.

Laboratory Tu 2:30-5:30, W 9:00-12:00.

Laboratory fee \$20.

PSY BC 1129x, y. Developmental Psychology.

Same as BC 1127, but without laboratory.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 20 students.

x: M. Crisafi.

y: L. Braine.

3 points. M W 1:10-2:25.

PSY BC 1130y. Human Learning and Memory.

Survey of contemporary theories of human memory with an emphasis on a comparison between structural and process models. Topics will include primary memory, secondary memory, levels of processing, organization and encoding specificity. Special topics will include eyewitness testimony, metamemory, development of memory, and the effects of

alcohol and other drugs on memory. The laboratory consists of experiments related to these topics.—J. Rabinowitz.

Prerequisite: BC 1001. Enrollment limited to 44 students. *Preregistration.*

4½ points.

Lecture M W 11:00-12:15.

Laboratory M 2:30-5:30 or Tu 1:00-4:00.

Laboratory fee \$20.

PSY BC 1132y. Human Learning and Memory.

Same as BC 1130 but without laboratory.—J. Rabinowitz.

Prerequisite: BC 1001.

3 points. M W 11:00-12:15.

PSY BC 1136y. Social Psychology.

Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research.—W. Gerin and assistants.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 50 students.

Preregistration.

4½ points.

Lecture Tu Th 9:10-10:25.

Laboratory W or Th 1:00-4:00.

Laboratory fee \$20.

PSY BC 1138y. Social Psychology.

Same as BC 1136, but without laboratory.—W. Gerin.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 25 students.

3 points. Tu Th 9:10-10:25.

PSY BC 1156x. Psychological Measurement.

Introduction to test theory, including test construction, standardization, reliability, validity, and item analysis. Other topics include: use of psychological tests in assessing intelligence, abilities, aptitudes, and personality; application of psychological tests in educational, clinical and industrial settings, legal issues in the use of psychological testing.—R. Garfinkel.

Prerequisite: BC 1001. *Preregistration.*

4½ points.

Lecture M W 11:00-12:15.

Laboratory Tu 1:00-4:00.

Laboratory fee \$20.

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PSY BC 1158x. Psychological Measurement.

Same as BC 1156x but without the laboratory.—R. Garfinkel.

Prerequisite: BC 1001. *Enrollment limited to 20 students.*

3 points. M W 11:00-12:15.

MIDDLE LEVEL COURSES

PSY BC 2134y. Educational Psychology.

Through a participative classroom model the major theories and issues in human psychological development and learning fundamental to the educative process are examined. The course will analyze the implications and applications of psychological knowledge for classroom teaching. Students observe in elementary and secondary school classes.—S. Sacks.

Prerequisite: BC 1001 or permission of the instructor.

3 points. Not offered in 1990-91.

PSY BC 2141y. Abnormal Psychology.

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy.—L. Aber.

Prerequisite: BC 1001 or permission of the instructor.

Tu Th 10:35-11:50.

PSY BC 2151x. Organizational Psychology.

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict decisionmaking, and communications.—J. Chen.

Prerequisite: BC 1001. *Enrollment limited to 45 students.*

3 points. Tu Th 1:10-2:25.

PSY BC 2154x. Hormones and Reproductive Behavior.

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral

processes are covered in class and are not prerequisites.—R. Silver.

Prerequisite: BC 1001 or Biology BC 1101-BC 1102.

Enrollment limited to 45 students.

3 points. Tu Th 1:10-2:25.

PSY BC 2158x. Human Motivation.

Empirical study of human motivation with emphasis on motives in fantasy, action and society. Surveys different approaches to the study of human motives and their scientific status. Discusses the development of motives in childhood, their behavioral and societal manifestations. Particular emphasis is given to need for achievement, need for power, need for affiliation, fear of failure, fear of success.—Y. Bat-Chava.

Prerequisite: BC 1001. *Alternate years.*

3 points. Tu Th 2:40-3:55.

PSY BC 2160x. Cognitive Psychology.

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, pattern recognition, imagery, categorization, problem solving, reasoning and language.—J. Rabinowitz.

Prerequisite: BC 1001. *Enrollment limited to 20 students. Alternate years.*

3 points. Not offered in 1990-91.

PSY BC 2370x. Psychological Analysis of Racism.

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper.—J. Fleming.

Prerequisite: BC 1001 and permission of the instructor. *Enrollment limited to 20 students.*

Alternate years. Not offered in 1990-91.

4 points.

PSY BC 2371x Psychology and Women.

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories; psychological aspects of special female experiences (e.g. menstruation, childbirth, abortion); women and therapy; women at work; and the science of psychology as it affects women.—W. McKenna.

Prerequisite: BC 1001.

Psychology

*Enrollment limited to 20 students.
4 points. M 2:10-4:00.*

UPPER LEVEL COURSES

PSY BC 3152y. Psychological Aspects of Human Sexuality.

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes towards sexuality.—W. McKenna.
Prerequisite: BC 1001 and two other psychology courses or permission of the instructor. Enrollment limited to 30 students. Preference given to seniors. Preregistration. 3 points. M W 1:10-2:25.

PSY BC 3161x. Introduction to the Psychotherapeutic Process.

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus of assessment, choice or treatment psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change.—C. Parker.
Perequisites: BC 1001, and any two of the following courses: Personality. Abnormal Psychology, Developmental Psychology, Human Motivation or permission of instructor. 3 points. Tu Th 10:35-11:50.

PSY BC 3164y. Perception and Language.

Psychological investigations of spoken communication from listener's perspective. Topics include perception of the sounds of speech and the apprehension of meaning from words and utterances; the perceptual basis for rhyme and rhythm in speech; and the natural history of vocal communication.—R. Remez.

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130 or equivalent. Enrollment limited to 20 students. Alternate years. 3 points. Not offered in 1990-91.

PSY BC 3167y. History and Systems of Psychology.

Development of the discipline of psychology examined in the context of significant events occurring in other fields (philosophy, other sciences) and in society. Major schools of psychology: Structuralism, Functionalism,

Behaviorism, Gestalt Psychology and Psychoanalytic Theory.—L. Braine.

Open to juniors and seniors who have had BC 1001 and two other courses in psychology, or permission of the instructor.

Alternate years. Not offered in 1990-91. 3 points.

PSY BC 3169y. Developmental Psychobiology.

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning).—C. Williams.

Prerequisites: BC 1001 and one other course in biology or psychology. Alternate years. 3 points. Not offered in 1990-91.

PSY BC 3372x. Topics in Developmental Psychology.

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices.—C. Ristau.

Prerequisites: BC 1001 and two other psychology courses. Enrollment limited to 20 students.

4 points. Tu 2:10-4:00.

PSY BC 3374y. Theories of Learning.

Comparative study of major accounts of learning processes, including behavioral, cognitive, and biological theories. Evaluation of qualitative and quantitative models and their logical and empirical validity.—P. Balsam.

Prerequisite: BC 1105 and junior or senior standing. Enrollment limited to 15 students. Alternate years.

4 points. Hours to be arranged.

PSY BC 3375y. Organization of Movement.

Selected topics pertaining to the control of action: information for determining movement; planning an act; motor systems; stabilities; locomotion; skill; hierarchies of control; perceptual influences on planning and execution of acts.—R. Remez.

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136.

Enrollment limited to 20 students.

4 points. Tu 2:10-4:00.

Psychology

PSY BC 3376y. Infant Development.

Analysis of human development during the first year of life. Perceptual, cognitive, sensory-motor, and social development will be examined, with emphasis on critical conditions involved in early learning and attachment. Other topics include prenatal development, "high-risk" infants, exploration and play, and language development.—W. Fifer.

Prerequisites: BC 1001 and BC 1127 or BC 1129. Enrollment limited to 20 students.

4 points. Not offered in 1990-91.

PSY BC 3377x. The Psychology of Aging.

Discussion of the basic areas of adult behavior. Specific topics will include biological theories of aging with specific reference to physiological and neurological changes, an examination of intellectual and cognitive functioning, and discussion of personality changes and the social psychology of aging.—J. Rabinowitz.

Prerequisites: BC 1001 and two other psychology courses. Enrollment limited to 25 students. Alternate years.

4 points. Not offered in 1990-91.

PSY BC 3378x. Females and Males: A Psychobiological Perspective.

Research in psychology and biology has shown that there are sex differences in brain and behavior of man and other animals. The developmental, neurological, hormonal, genetic, experiential and evolutionary bases of sex differences in reproductive behavior and cognitive function, and the implications of these differences will be critically examined.—C. Williams.

Prerequisites: BC 1001 and two other psychology courses.

Alternate years. Not offered in 1990-91.

4 points.

PSY W 4107y. Applications of Experimental Psychology.

Actual and potential applications of basic research in many areas of psychology. Traditional approaches to clinical situations; alternative experimental approaches to therapy, institutional design, and social planning; clinical assessment behavior modification, self-control, creativity, law, education, and the ethics of social control.—P. Balsam.

Prerequisite: Learning course and permission of the instructor. Enrollment limited to 15 students. Offered every three years.

3 points. Not offered in 1990-91.

PSY W 4132y. Production and Perception of Language.

Review of theories and current research on the processes of speech perception. Topics include the acoustic theory of phonetic differentiation, peripheral transduction, auditory and phonetic analysis, word recognition, phrase formation, and the effects of context in perception and production. Special topics include language perception and production in the deaf, perception of metaphor, and automatic speech recognition.—R. Remez.

Prerequisites: Psychology W 1501. W 3180, BC 3164 or TP 4398.

3 points. Not offered in 1990-91.

RESEARCH AND FIELD WORK COURSES

PSY BC 3465x, BC 3466y. Field Work and Research Seminar: Barnard Toddler Center.

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates theory, research, and practice.—L. Aber.

Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the spring of the year preceding registration.

Enrollment limited to 12 students.

4 points. Tu 12:30-2:30.

PSY BC 3473y. Field Work Seminar in Psychological Services and Counseling.

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials.—S. Stingle.

Prerequisites: 3 psychology courses and permission of the instructor. Permission of the instructor required during program planning the previous autumn. Enrollment limited to 12 students; seniors given priority.

4 points. Tu 10:00-12:00 plus supervision to be arranged.

Psychology

PSY BC 3591x, PSY BC 3592y. Senior Research Seminar.

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination.—J. Rabinowitz.

Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.

Prerequisites: BC 1101, a minimum of five other psychology courses must be completed, and permission of the instructor.

4 points. Tu 4:00-6:00.

PSY BC 3599x, PSY BC 3599y. Individual Projects.

Research projects planned in consultation with members of the department—Staff.

Open to majors on written permission of the department member who will supervise the project.

3 or 4 points. Hours to be arranged.



Quantitative Reasoning Program

Office: 1203 Altschul

Telephone: 854-2437

This program is supervised by the Quantitative Reasoning Committee:

Associate Professor of Biology

Paul E. Hertz (Director)

Professor of Chemistry

Leslie Lessinger

Assistant Professor of Economics

Christopher Grandy

Professor of Mathematics

Joan A. Birman

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

Quantitative Reasoning Requirement

All entering students must take the Basic Math Skills test during orientation week. Students who fail the test must take QUR BC 1001, *Basic Math Skills*, before satisfying the QR requirement with one of the courses listed on pages 30-31.

All students must pass one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or symbolic manipulation to solve problems. The requirement may be fulfilled by passing a Quantitative Reasoning Course (described below), or one of the courses listed on pages 30-31.

Quantitative Reasoning Courses

Quantitative Reasoning courses introduce students to mathematical concepts through the analysis of quantitative topics in other disciplines. Each one-semester course is made up of two six-week units. Each unit is taught by a different professor whose area of interest lies in a discipline within the humanities, the social sciences, or the natural sciences and mathematics. Students must complete both units in the same semester to receive credit for the course; both units contribute equally to the grade for course.

Students are introduced to the use of computers in all QR courses. *Instructors assume that students have had no prior experience using computers.*

QUR BC 1001x, y. Basic Math Skills.

M. Rogers.

Required as noted above. Open to other students only with permission of director of the program.

1 point.

x: Sec. 1 M W 4:10-5:25, Sept. 10 - Oct. 24.

Sec. 2 Tu Th 4:10-5:25, Oct. 16-Dec. 6.

y: Sec. 1 M W 4:10-5:25, Jan. 21 - Mar. 7.

Sec. 2 Tu Th 4:10-5:25, Mar. 5 - Apr. 25.

analyze secret communications systems.—J. Follansbee, J. Lad.

3 points. x: M W 11:00-12:15.

y: M W 2:40-3:55.

QUR BC 1111x, y. The Universe — An Astronomical Perspective.

This course presents an examination of the astronomical data and analyses that have been responsible for both past and present cosmological views of the universe. The first unit will concentrate on the physical characteristics of celestial bodies within the milky way. The second unit will focus on the evolution of the cosmos as a whole.—T. Halpin-Healy, D. Rana.

3 points. Tu Th 1:10-2:25.

QUR BC 1110x, y. Words, Codes, and Cryptograms

This course introduces the mathematics of the computer age by using computers to manipulate textual information. The first unit develops specific programming examples necessary to analyze textual input and output. The second unit focuses on basic concepts and techniques of cryptography, enabling students to design, implement, and

Religion

Office: 219 Milbank Hall

Telephone: 854-2597

Professors

Karen McCarthy Brown (Visiting), John Stratton Hawley¹, Alan Segal (Chair)

Associate Professor

Randall Balmer

Visiting Associate Professors

Deirdre Good, Holland Hendrix

Assistant Professor

Vivian-Lee Nyitray

Visiting Assistant Professors

Celia Deutsch, Glen Thompson

Lecturer

M. Stoller

Instructors

Bradley Clough, Rachel Fell McDermott

Other officers of the University offering courses listed below:

Professors

Peter Awn, Richard Gustafson (Russian), Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Robert A.F. Thurman, Alex Wayman, David Weiss-Halivni, Aslam Syed

Assistant Professors

Ryuichi Abe, Matthew Kapstein

Visiting Professor

Ewert Cousins

Visiting Associate Professor

David Shatz

Lecturer

David Lelyveld

Instructor

Gurinder Singh Mann

¹Absent on leave 1990-91.

Approaches to the study of religion are as diverse as the world's religious traditions themselves, perhaps because the religious experience we seek to understand is inseparable from the rich diversity of human life and culture. The student of religion encounters men and women as they explore the very boundaries of their perceptions of the real. It is the challenge provoked by this encounter that makes our common involvement in the academic study of religion so fascinating, even as it leads us to scrutinize and question the boundaries of our own world view.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by Barnard College and Columbia College offers a unique context for this interdisciplinary study through the superb resources it commands. The areas of expertise of the religion faculty (philosophy of religion, sociology and anthropology of religion, the history of specific religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes—Middle East, Southern Asian, etc.—explore in depth the linguistic, literary, and sociocultural milieus of particular Eastern or Western religious traditions. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic,

Religion

Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit, Tibetan, and so forth. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located within two blocks of Barnard; students are encouraged to use the resources they offer.

All courses, except those limited to majors, satisfy the College's distribution requirements.

REQUIREMENTS FOR THE MAJOR

Program of study:

To be planned with the departmental representative, taking into account the educational aims of the student.

Courses:

For the major, 10 courses are required. Students must include among the 10 courses V 1040—*Introduction to Theory and Methods in the Study of Religion* and at least one of the introductory courses (V 1001—*Major Topics in the Study of Religion*; V 1101—*Introduction to the Study of Western Religion*; or V 1102—*Introduction to the Study of Eastern Religion*), and two courses in the traditions (six points). At the levels of the introductory and traditions courses, students are expected to gain exposure to both Eastern and Western religions. The majors' colloquium, to be taken in the senior year, and a seminar are also required. Courses in which a grade of D has been received may not be used to satisfy requirements for the major.

It is strongly recommended that majors, especially those considering graduate work in religion pursue the study of the language of one religious tradition (e.g., Arabic, Chinese, Greek, Hebrew, Latin, Sanskrit) in addition to fulfilling the College language requirement.

Senior essay:

Majors are required to prepare a senior essay or project in consultation with a member of the department. The essay may be written in connection with V 3901-V 3902—*Guided Reading and Research*. The department takes the senior essay into consideration when making recommendations to the Faculty Committee on Honors.

REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses, including:

One of the introductory courses (i.e., V 1001, V 1040, V 1101, V 1102);

Two courses selected from the Traditions; and

One course taken as a seminar, colloquium, or guided reading.

The Department also cooperates with related programs such as Ancient Studies, Oriental Studies, Jewish Studies, and with other departments, to arrange combined, double, joint and special majors. These arrangements are made in consultation with the chair.

COURSES OF INSTRUCTION

For courses offered by other departments and the graduate program, that are integral to the study of religion, students are urged to consult the appropriate bulletin. Some graduate courses are open to qualified undergraduates with the instructor's permission.

INTRODUCTORY COURSES

REL V 1001y. Major Topics in the Study of Religion.

Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization.—R. Abe.

3 points. M W 2:40-3:55.

H

Religion

REL V 1040x, y. Theories and Methods in the Study of Religion.

An introduction to the problems and methods of the study of religion, focusing on classical theorists such as Levy-Bruhl, Durkheim, Freud, Jung, Lévi-Strauss, Evans-Pritchard, Malinowski, and Eliade.

3 points.

x: M W 11:00-12:15. W. Proudfoot.

y: Tu Th 6:10-7:25. R. McDermott. H

REL V 1101x. Introduction to the Study of Western Religion.

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the West.—C. Deutsch and Alan Segal.

3 points. Tu Th 2:40-3:55. H

REL V 1102x, y. Introduction to the Study of Eastern Religion.

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East.

3 points. x: M W 11:00-12:15. V. Nyitray.

y: M W 6:00-7:25. B. Clough. H

THE TRADITIONS

REL V 2600x. Hinduism.

Origin and development of central themes of traditional Hinduism; basic religious literature and its relation to Indian culture. Readings include original sources in translation.—R. McDermott.

3 points. Tu Th 2:40-3:55. H

REL V 2603y. Taoism.

Historical introduction to Chinese Taoism; development of thought and literature (i.e., the *Tao Te Ching* and the *Chuang Tzu*); meditation and alchemy; translations of doctrine into folk belief and ritual; examination of contemporary study and practice.—V. Nyitray.

3 points. M W 11:00-12:15. H

REL V 2607x. Buddhism.

A historical introduction to Buddhist thought, scriptures, practices, and institutions. Attention given to Theravada, Mahayana, and Tantric Buddhism in India, as well as selected non-Indian forms.—R. Thurman.

3 points. Tu Th 4:10-5:25. H

REL V 2610y. Christianity.

Survey of Christianity from its beginnings through the Reformation.—M. Stoller.

3 points. Tu Th 1:10-2:25. H

REL V 2620x. Judaism.

Historical overview of Jewish belief and practice as these have crystalized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations.—A. Segal.

3 points. Tu Th 10:35-11:50. H

Islamic-Religion ISR V 2630y. Islam.

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings.—P. Awn.

3 points. Tu Th 4:10-5:25. H

INTERMEDIATE COURSES

EASTERN RELIGIONS

REL V 3605y. Sikhism.

Focusing on the religious beliefs, literature, and history of the Sikhs, the course will trace the development of Sikhism from its inception as a part of a large devotional (*bhakti*) movement to its modern manifestation as a powerful religious minority in contemporary India.—G. Mann

3 points. M W 4:10-5:25. H

REL V 3613x. Japanese Religious Tradition.

A study of the development of the Japanese religious tradition in the pre-modern period. Attention given to the thought and practices of Shinto, Buddhism, and Confucianism, the interaction among these religions in Japanese history, and the first Japanese encounter with Christianity.—R. Abe.

3 points. M W 1:10-2:25. H

REL V 3640x. Chinese Religious Tradition.

Development of the Three Teachings of Confucianism, Taoism, and Buddhism; folk religion and eclecticism; the contemporary situation in Chinese culture areas. Readings drawn from primary texts, poetry, popular prose.—V. Nyitray.

3 points. Not offered in 1990-91. H

Indic-Religion W 4301y. Hindu and Buddhist Tantrism.

3 points. Not offered in 1990-91. H

Indic-Religion INR W 4340x. The Vedic Tradition.

Survey of the chief features of the four Vedas, the *Brahmanas*, the *Upanishads* of India; the Vedic sacrifice, the opponents of Vedism, and the beginning of Hinduism.—A. Wayman.

3 points. W 11:00-12:50. One additional hour to be arranged. H

WESTERN RELIGIONS

Judaism

REL V 3201x. Introduction to the Hebrew Bible.

Introduction to the literature of ancient Israel against the background of the ancient Near East.—C. Deutsch.

3 points. Tu Th 4:10-5:25. H

REL V 3210y. Judaism During the Time of Jesus.

An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West.—A. Segal.

3 points. M W 11:00-12:15. H

REL V 3214y. Introduction to Talmudic and Geonic Literature.

3 points. Not offered in 1990-91. H

REL V 3310x. Peshat and Drash in the Jewish Tradition.

An examination of the nature of the plain meaning (Peshat) and the non-plain meaning (Drash) of classical Jewish texts and of the theological and social implications of the tension between these two meanings.—D. Weiss-Halvini.

3 points. M W 2:40-3:55. H

REL V 3330y. The Beginnings of Jewish Mysticism.

3 points. Not offered in 1990-91. H

REL V 3315y. Halakha and Aggadah.

3 points. Not offered in 1990-91. H

REL V 3338x. Jewish Ethics.

A critical examination of both philosophical questions concerning the nature and basis of Jewish ethics and normative questions concerning the saving and taking of human life.

Jewish materials will be compared with parallel discussions by contemporary ethicists.—D. Shatz.

3 points. Tu Th 4:10-5:25. H

REL V 3349y. Jewish Family Law.

3 points. Not offered in 1990-91. H

REL V 3355x. Development of the Jewish Holidays.

3 points. Not offered in 1990-91. H

REL V 3360x. Jewish Liturgy.

3 points. Not offered in 1990-91. H

REL W 4306x. Josephus.

3 points. Not offered in 1990-91. H

REL W 4530y. Introduction to Rabbinic Thought.

An inquiry into one's duty to God, to oneself and to others, as expressed in classical rabbinic texts, particularly the Midrash and Aggadah, and into the theological presuppositions of those duties.—D. Weiss-Halivni.

3 points. M W 2:40-3:55. H

Christianity

REL V 3202x. Introduction to the New Testament.

Introduction, by critical methods, to the religious history of the Christian movement in the New Testament period.—H. Hendrix.

3 points. Tu Th 1:10-2:25. H

REL V 3240x. Graeco-Roman Religion.

Survey of religions of Rome and the Hellenistic East from the late 4th c. B.C.E. to early 4th c. C.E. with special attention to selected local religious phenomena.—G. Thompson.

3 points. Tu Th 9:10-10:25. H

REL V 3402y. Early Christianity.

3 points. Not offered in 1990-91. H

REL V 3404y. Eastern Christianity.

The history of Eastern Christianity from the time of Constantine and the Greek and Oriental Fathers of the 4th century to early modern times; institutions, mystical theology, monasticism, religious art.—R. Gustafson.

3 points. Not offered in 1990-91. H

History-Religion HIR V 3405y. Medieval Ecclesiastical History: 500-1150.

3 points. Not offered in 1990-91. H

Religion

REL V 3408x. Catholic Theology since Vatican II.

Development of Catholic theology after Vatican II, in its historical context; Rahner, Kung, Metz, Lonergan, Teilhard, Panikkar, liberation theology; the church and the world, infallibility, theological method, political theology, hope and the future. Christian ecumenism and world religions. —E. Cousins.

3 points. Tu Th 6:10-7:25. H

REL V 3412y. Gnosticism.

Investigations of the gnostic gospels and other secret writings, discovered in 1945 in Egypt. These texts, denounced and destroyed as "heretical" by leaders of the early Christian Church, will be explored in terms of their historical, literary, and political content. —D. Good.

3 points. M W 4:10-5:25. H

REL W 4017x. Magic in Greek and Roman History.

3 points. Not offered in 1990-91. H

REL W 4200y. Jesus.

This course will investigate what can reasonably be supposed about the historical Jesus from the preserved evidence, mainly the canonical Gospels.

3 points. Not offered in 1990-91. H

REL W 4440y. Paul.

Reading and discussion of the Pauline epistles, the pseudo-Paulines and Acts, to determine Paul's teachings and the structure and activities of the churches he formed. —M. Smith.

3 points. Not offered in 1990-91. H

REL W 4820y. Possession: Demonic and Divine.

3 points. Not offered in 1990-91. H

Islam

ISR V 3635x. History of Sufism.

History of the Islamic mystical tradition from its origins in the 8th century through its classical and institutional phases in the 12th century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world. —A. Syed.

3 points. M W 11:00-12:15. H

ISR W 4300x. Islam in India.

The course will examine what it has meant to be Muslim in South Asia from the 7th century

C.E. to the present, with special attention to the relations of Islam to the dominant non-Muslim civilization of the subcontinent. —D. Lelyveld.

3 points. Tu Th 9:10-10:25. H

RELIGION, CULTURE AND SOCIETY

REL V 3370. Women in Sacred Texts: Hebrew Bible and the New Testament.

A study of women's roles as reflected in the Hebrew Bible and the New Testament.

3 points. Not offered in 1990-91. H

REL V 3407x. Mysticism.

3 points. Not offered in 1990-91. H

REL V 3501y. 18th and 19th Century Religious Thought.

3 points. Not offered in 1990-91. H

REL V 3502x; 3503y. The History of Religion in America.

A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: from colonization to the Civil War. V 3503y: from the Civil War to the present—R. Balmer.

*3 points. x: Not offered in 1990-91.
y: M W 11:00-12:50. H*

Religion-Sociology RSC V 3508x. Religious Cults in Contemporary American Society.

A socio-historical examination of the "new" religious movements. Cult theology and world view, patterns of proselytization and conversion, organizational structure and leadership, disaffection and deprogramming. —G. Lindt.

3 points. Tu Th 5:40-6:55. S

REL V 3513x. Philosophy of Religion.

Introduction to classical and contemporary issues, including those raised by the comparative study of religion.

3 points. Not offered in 1990-91. H

REL V 3700y. Women and Religion.

A survey of feminine images and women's roles in selected Eastern and Western religious traditions; reemergence of Goddess religion and wicca; the challenge of modern feminism. —V. Nyitray.

3 points. M W 1:10-2:25. H

Religion

REL V 3701x. Women and Feminine Imagery in Western Mystical Traditions.
An introduction to the role of women in Western mystical traditions and the use of feminine imagery for the divine.
Prerequisite: one introductory course in religion or instructor's permission.
3 points. Not offered in 1990-91. H

Religion-Sociology RSC V 3720y. Sociology of Religion.
Introduction to the nature and development of the sociology of religion. Examination of strategic issues in theory and method as they relate to the study of the interrelationships between religion, culture, social structure and the individual.—G. Lindt.
3 points. Tu Th 5:40-6:55. H

REL V 3725x. The World of Myth.
3 points. Not offered in 1990-91. H

REL V 3735y. Religious Ritual.
3 points. Not offered in 1990-91. H

REL W 4420y. Krishna.
3 points. Not offered in 1990-91. H

REL W 4710y. Marx, Nietzsche, Freud.
3 points. Not offered in 1990-91. H

SEMINARS AND READING COURSES

Students must obtain permission of the instructor.

REL V 3800x. Majors' Colloquium.
Critical issues in the modern study of religion.—M. Kapstein.
Required for all senior majors.
4 points. W 4:10-7:00. H

REL V 3803x. Seminars in Religious Thought.
4 points.

33. Hindu and Buddhist Contemplative Traditions.

A survey of the literature of the Hindu and Buddhist meditational traditions, covering the origins and evolutions of various Indian yogic traditions, as well as some of the subsequent developments in Tibetan and East Asian Buddhist schools.—B. Clough.
M 2:10-4:00. H

REL V 3804y. Seminars in Religious Thought.
4 points.

23. Religious Biography.

Examines the uses and significance of life story in the study of religion. Primary texts include biographies and autobiographies drawn from the Buddhist, Christian, and Chinese religious traditions. Secondary materials illustrate the ways in which a life is transformed into a paradigm and provide a critique of the religious biographical process.—V. Nyitray.
F 2:10-4:00. H

24. African-based Religions of the Caribbean.

Interactions among the various traditional African religions preserved by slave populations in the Caribbean and Latin America, and between those religions and Christianity. Special foci: religion in Brazil and Haiti, and issues affecting women's experience and social change.—K. Brown.
M 2:10-4:00. H

31. The 16th Century Reformation of Latin Christianity.

Latin Christianity in the early 16th century and the developing schism with readings and discussion of works by Erasmus, Luther, Zwingli, Calvin and others.—R. Somerville.
M 4:10-6:00. Enrollment limited to 20. H

34. The Goddess Kali.

An examination of the Hindu goddess famed for the apparent contradiction between her great beneficence and utter ferocity. Rituals, texts, songs, iconography; change over time.—R. McDermott.
W 2:10-4:00. H

History-Religion HIR V 3820y. Religion and Society in Modern India.

Selected topics illustrating the mutual involvement of religion and society in India since the sixteenth century: Hindu devotional movements, Hindu reform movements, Islamic self-definition, religious minorities, recent trends.
4 points. Not offered in 1990-91. H

Religion

REL V 3901x, REL V 3902y. Guided Reading and Research.

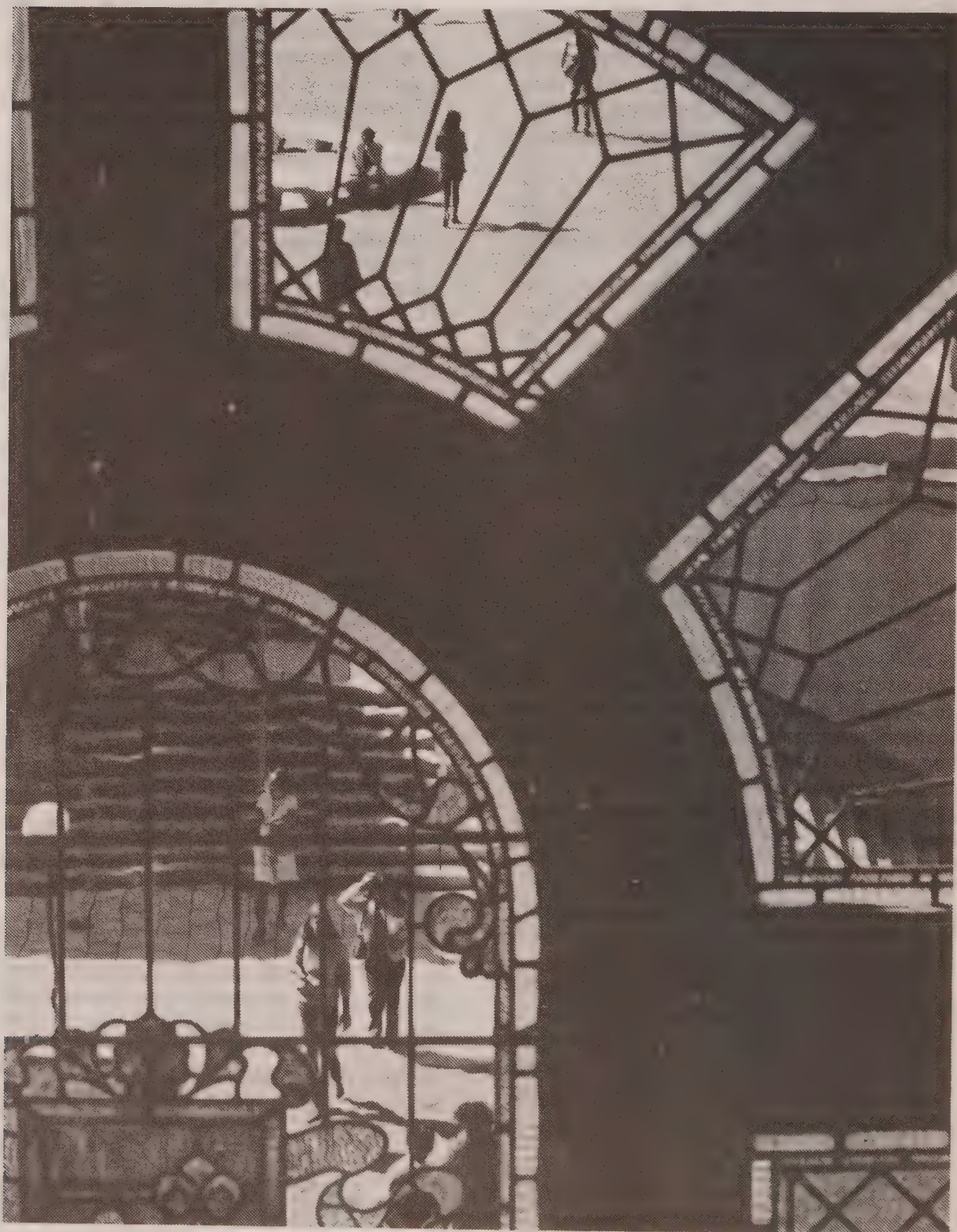
A program of study designed to give majors an opportunity to pursue independently a subject of their choosing. A written essay is required.—Staff.

3 or 4 points. If one elects this rubric in connection with the preparation of a senior essay, a maximum of four points are allowed

in the course of an academic year, normally with no more than three falling in a single term. Otherwise, the course is confined to a semester's length and evaluated at three points.

Consultation periods to be arranged with adviser.

H



Russian

Office: 226 Milbank Hall

Telephone: 854-5417

Professors

Richard F. Gustafson (Chair), Marina Astman

Assistant Professor

Catharine Nepomnyashchy

Associate

Mara Kashper

Other officers of the University offering courses in Russian:

Professors

Robert L. Belknap, Robert A. Maguire

Assistant Professors

Frank Miller, Cathy Popkin¹, Irina Reyfman²

Lecturers

Alla Arsenian, Dina Dukach, Alla Zeide

¹Absent on leave 1990-91

²Absent on leave Autumn Term

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government business, journalism, or international law.

Foreign Language Requirement for the Degree: all students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Astman as early as possible.

A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 1220

Russian V 1221

Nineteenth-Century Russian Literature

Twentieth-Century Russian Literature

Usually taken in the third year:

Russian V 3331-V 3332

Russian V 3333-V 3334

Advanced Course

Introduction to Russian Literature

Usually taken in the fourth year:

Russian V 3443-V 3444

Russian V 3595

Fourth Year Course

Seminar

Two electives in literature.

Russian

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Columbia University can usually be arranged and study in the Soviet Union is possible as part of the major.

REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor. No courses in translation count toward the minor.

COURSES OF INSTRUCTION

Sec. 7 M Tu W Th F 1:10.

LANGUAGE COURSES

RUS V 1101x-RUS V 1102y. Elementary Course.

Grammar, reading, composition, and conversation.

Required: Course V1501- V1502. Homework includes listening to tapes available in the language laboratory.

No credit is given for V 1101 unless V 1102 is satisfactorily completed. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to class.

4 points. Instructors to be announced.

Secs. 1, 2 M Tu W Th F 9:00.

Secs. 3, 4 M Tu W Th F 10:00.

Secs. 5, 6 M Tu W Th F 11:00.

Sec. 7 M Tu W Th F 12:00.

Secs. 8, 9 M Tu W Th F 1:10.

Sec. 10 M Tu W Th 6:10-7:25.

RUS V 1101y. Elementary Course.

Equivalent to V 1101x, but given in Spring Term.—Instructor to be announced.

4 points. M Tu W Th F 9:00.

RUS V 1102x. Elementary Course.

Equivalent to V 1102y, but given in Fall Term.—Instructor to be announced.

Prerequisite: V 1101 or the equivalent.

4 points. M Tu W Th F 10:00.

RUS V 1501x-RUS V 1502y. Elementary Grammar Lecture.

Required weekly grammar lecture for Course V1101-V1102.

Th 12:00 or Th 2:30.

RUS V 1201x-RUS V 1202y. Intermediate Course.

Reading, composition, grammar review.

Prerequisite: Course V 1102 or the equivalent.

Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to class.—Instructors to be announced.

4 points. Sec. 1 M Tu W Th F 9:00.

Sec. 2 M Tu W Th F 10:00.

Secs. 3, 4 M Tu W Th F 11:00.

Secs. 5, 6 M Tu W Th F 12:00.

RUS V 1201y. Intermediate Course.

Equivalent to V 1201x, but given in Spring Term.—Instructor to be announced.

Prerequisite: V 1102 or the equivalent.

M Tu W Th F 10:00.

RUS V 3331x, RUS V 3332y. Advanced Course.

Emphasis on conversation and composition; reading and discussion of selected texts and video tapes; lectures, papers, and oral reports. Conducted entirely in Russian.—F. Miller and staff.

Prerequisite: Course V 1202 or the equivalent.

Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class.

4 points. Sec. 1 M Tu W Th F 10:00.

Sec. 2 M Tu W Th F 12:00.

Sec. 3 M Tu W Th F 1:10.

RUS V 3441x, V 3442y. Fourth-year Conversation and Composition.

Discussion and composition on contemporary topics. Development of speaking skills and strategies. For students wishing to acquire greater proficiency in speaking and writing Russian.—Instructor to be announced.

Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.

3 points. M W F 10:00-10:50.

RUS V 3443x, RUS V 3444y. Fourth-year Course.

Reading and discussion of selected texts from 20th-century Russian literature. Discussion of different styles and levels of language, including word usage and idiomatic expression. Written exercises, translations into Russian, composition and oral reports.—D. Dukach.

Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.

4 points.

Sec. 1 M Tu W Th F 11:00-11:50.

Sec. 2 M Tu W Th F 9:00-9:50. (Autumn only)

Russian

RUS V 3451x-RUS V 3452y. Understanding Soviet Media.

Analysis and discussion of current events as described by Soviet television and newspapers. Acquisition and development of Russian lexicon, and interpretation of Soviet journalistic technique. Conducted entirely in Russian.—Instructor to be announced.

Prerequisite: Three years of college Russian or permission of the instructor.

3 points. Not offered in 1990-91.

RUS W 4432x. Contrastive Phonetics and Grammar of Russian and English.

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian.—F. Miller.

Prerequisite: Four years of college Russian or permission of the instructor.

3 points. Tu Th 2:40-3:55, and two hours to be arranged.

RUS W 4433y. Specific Problems in Mastering Russian.

The Russian verb (basic stem system, aspect locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation.—F. Miller.

Prerequisite: Four years of college Russian or permission of the instructor.

3 points. Tu Th 1:10-2:25, and two hours to be arranged.

RUS W 4434x-4435y. Advanced Composition: The Writing of Expository Prose.

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian.—M. Astman.

Prerequisite: Four years of college Russian or permission of the instructor.

3 points. M W 11:00-12:15.

LITERATURE COURSES

RUS V 3333x-3334y. Introduction to Russian Literature.

A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn.—x: A. Zeide. y: I. Reyfman.

Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.

3 points. M W F 1:10.

H

RUS W 4040y. Masterpieces of Russian Literature: 19th Century.

A close study in the original of representative works by Pushkin, Lermontov, Gogol, Turgenev, Ostrovsky, Tolstoy, Dostoevsky, Leskov, and Chekhov.—I. Reyfman.

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. M W F 12:00-12:50.

H

RUS W 4041y. Masterpieces of Russian Literature: 20th Century.

A close study in the original of representative works by Andrei Bely, Sologub, Pasternak, Bulgakov, Nabokov, Olesha, Mandelstam, Anna Akhmatova, Solzhenitsyn, Abram Terts, and Brodsky.—I. Reyfman.

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. Not offered in 1990-91.

H

RUS V 3461y. Pushkin.

Pushkin's narrative, dramatic, and lyrical verse in the original. Conducted mainly in Russian. Examinations in English.—I. Reyfman.

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1990-91.

H

RUS V 3462x Gogol.

The major works of Gogol, in the original. Class discussion conducted in English.—R. Maguire.

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1990-91.

H

RUS V 3463y. Tolstoy.

A close reading, in the original *Anna Karenina*. Class discussion conducted in English.—R. Gustafson.

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1990-91.

H

RUS V 3464y. Dostoevsky.

One major novel in the original, with emphasis on linguistic and literary analysis.—R. Belknap.

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Not offered in 1990-91.

H

RUS V 3465y. Russian Poetry in the 19th and 20th Centuries.

Selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others;

Russian

metrics, formal analysis of style and structure, and relationships to literary and philosophical movements.—M. Astman.

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. M W 2:40-3:55. H

RUS V 3467x. Twentieth-Century Prose Writers.

A close study in the original of major Soviet writers of the 1980s. Class discussion in English.—C. Nepomnyashchy.

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Tu Th 10:35-11:50. H

RUS V 3595x. Seminar.

Topic: The growth of Russian national self-awareness. Class reports culminating in a critical paper.—M. Astman.

Prerequisite: Major status or permission of the instructor.

4 points. W 2:10-4:00.

RUS V 3596y. Individual Research.

Supervised individual research culminating in a critical paper.—Staff.

Open to senior majors, and permission of the instructor is required.

4 points. Hours to be arranged.

RUSSIAN LITERATURE IN TRANSLATION

RUS V 1220x. Nineteenth-Century Prose.

The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy.—R. Maguire.

A knowledge of Russian is not required.

3 points. Tu Th 10:35-11:50. H

RUS V 1221y. Twentieth-Century Prose.

Course of Russian prose fiction from symbolism to the present: including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifonov.—C. Nepomnyashchy.

A knowledge of Russian is not required.

3 points. Tu Th 2:40-3:55. H

RUS V 1222y. Tolstoy and Dostoevsky.

Major works of the two writers.—R. Gustafson.

A knowledge of Russian is not required.

3 points. M W 1:10-2:25. H

RUS V 1224y. Introduction to Russian Culture.

Principal currents of Russian thought and artistic expression with emphasis on elements that appear to be characteristically Russian.

A knowledge of Russian is not required.

3 points. Not offered in 1990-91.

RUS V 1225x. Russian Women—Myth and Reality.

Literary and historical records studied chronologically with focus on women's social position, their literary image, and their contribution to culture. Special attention to the Soviet period.—M. Astman.

A knowledge of Russian is not required.

3 points. Not offered in 1990-91.

Russian V 1226x. Soviet Culture.

A survey of the historical development and contemporary problems of society. Attention given to cultural myths, popular culture, and to the effects of glasnost and perestroika.—C. Nepomnyashchy.

A knowledge of Russian is not required.

3 points. T, Th 1:10-2:25; Movies every other M 6:00-8:00.

Religion-Russian RER G 4006y. Modern Russian Religious Thought.

Concepts of God, man, nature, and history; Chaadaev, Khomyakov, Solovyov, Fyodorov, Berdyaev, Shestov, Florensky, Bulgakov, Lossky, Frank, and others.—R. Gustafson.

A knowledge of Russian is not required; permission of instructor is required.

3 points. W 4:10-6:00. H

Sociology

Office: 410E Milbank Hall

Telephone: 854-4359

Professor Emerita
Mirra Komarovsky¹

Associate Professor
Jonathan Rieder (Chair)

Adjunct Professors
Nathalie Friedman, Theresa Rogers

Visiting Assistant Professor
Lynn Chancer

Other officers of the University offering courses listed below:

Professors

Ronald Burt, Jonathan Cole, Priscilla Ferguson, Herbert Gans, Eugene Litwak, Gunther Roth, Alan Silver, Seymour Spilerman, Harrison White, Harriet Zuckerman

Associate Professors

Eric Leifer, Mark Mizruchi

Assistant Professors

Karen Barkey, Eric Hirsch, Hiroshi Ishida, Tormod Lunde, Martina Morris

¹Special Lecturer

Sociology aims to uncover the theoretical principles that illuminate social life. In pursuing this goal, sociology exhibits a diversity of perspectives. This pluralism is one source of the discipline's vitality. Some scholars reach out to the sciences for their model of sociological inquiry; others look to more humanistic and historical endeavors for their inspiration and identity. But in all its different forms, the discipline as a whole strives to develop rigorous methods, both qualitative and quantitative, for analyzing social life.

Sociology involves more than the accumulation of theory and method for their own sake. Perhaps above all else, sociology is devoted to the exploration of actual social life in all its variousness. Thus it is that Sociology majors examine the dynamic processes through which human beings express their social being: cooperation, conflict, power, exchange, morality, symbolism, domination, dependency, deviance, social control, violence. Students also study the forms to which these processes give rise: social networks, small groups, face-to-face interaction, subcultures, families, gender divisions, religion, popular and high culture, social class, structures of race and ethnicity, bureaucracy, social movements, professions, and the state. The Barnard Department of Sociology tends to focus on these forms and processes as they unfold in the United States. At the same time, we seek to guard against provincialism by grounding our analyses comparatively and exploring the social life of less developed, developing, and other mature industrial societies.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of **ten** courses is required for the major, including

SOC BC 1001, BC 1002	<i>Introduction to Sociology</i>
SOC BC 3082	<i>Junior Colloquium</i>
SOC V 1205	<i>Evaluation of Evidence</i>

Sociology

SOC V 3212

SOC BC 3087-BC 3088

Methods of Social Research (both no later than the junior year)
Individual Projects for Seniors

and at least three other courses selected in consultation with the major adviser. Sociology V 1205 and V 3212 should be taken, if possible, in the sophomore year and no later than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Sociology, BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including Sociology BC 1001, BC 1002, and three courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1001x. Introductory Sociology, I

Introduction to the sociological perspective on human behavior; major theoretical orientations, research methods, and policy uses. Application of basic sociological concepts to the study of love and death. Process of social learning in childhood and adulthood; sex role differences; agents of socialization; family, education, mass media, workplace. — N. Friedman.

3 points. M W 2:40-3:55.

S

SOC BC 1002y. Introductory Sociology, II.

General introduction to sociological analysis continued. Impact of small groups and formal organizations on individual behavior, selected problems of social deviance and social control, stratification and social change. — N. Friedman.

Prerequisite: BC 1001 or permission of the instructor.

3 points. M W 2:40-3:55.

S

SOC V 1005x. Medical Care in 20th Century America.

An institutional and historical analysis of the critical changes that have influenced the organization and content of medical services today — the reform of medical education, the rise of specialization, the role of the hospital, the place accorded public health, the impact of third-party payers and for-profit facilities. — T. Rogers.

3 points. Offered in 1991-92.

S

SOC V 1205x. Evaluation of Evidence.

A nontechnical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the

discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments).

3 points. Sec. 1 Tu Th 2:40-3:55. M. Morris.

Sec. 2 Tu Th 4:10-5:25. R. Burt. S

One introductory course in sociology suggested for all 3000-level courses.

SOC BC 3082y Junior Colloquium: Perspectives on Social Order.

An examination of the major theoretical frameworks sociologists use to analyze power, symbolism, conflict, inequality, exchange, consensus, deviance, organization, values, and affiliation. Students will complete a prospectus that outlines the substantive topic, methodological approach, and theoretical concerns of their senior essays.—J. Rieder. *Prerequisite:* Two introductory courses SOC 1001, 1002 or permission of the instructor.

4 points. Tu 4:10-6:00.

S

SOC BC 3087x, 3088y. Individual Projects for Seniors.

The instructor will supervise the writing of long papers involving some form of sociological research and analysis. — N. Friedman. *Required of all senior majors.*

4 points. W 4:10-6:00.

SOC V 3013x. Women, Health and Health Care.

Analysis of changing perspectives on women's health status and their roles in the health sector. Topics include women's mental and physical health, contraception, pregnancy, childbirth, morbidity, and mortality examined in the context of social science theories and evidence. — T. Rogers.

Permission of instructor required. Enrollment limited to 16 students. Offered in alternate years.

4 points. Tu 4:10-6:00.

S

Sociology

SOC V 3100y. Introduction to Social Theory. Development of theories of society in the 19th and early 20th century. Detailed examination of the works of the major founders of sociology: Marx, Weber, and Durkheim, as well as a look at other theorists. Topics include the relationship between the individual and society, the nature of class and class struggle, and morality and purpose in social action. — G. Roth.

3 points. M W 1:10-2:25. S

SOC V 3101y. Contemporary Social Theory. Major developments in social theory in the 20th century with special focus on symbolic interactionism, structuralism, and critical theory. Theorists to be discussed include Goffman, G. H. Mead, Lévi-Strauss, Althusser, Freud, and Habermas. — T. Lunde.

3 points. Tu Th 10:35-11:50. S

SOC BC 3115y. Feminist Theory.

An analysis of the theoretical assumptions and political implications of liberal, radical, Marxist, and socialist variants of first and second-wave feminist theory, including recent works in psychoanalytic and post-modern feminism. The course also considers the implications of such feminist arguments for debates within contemporary and classical sociological theory.—L. Chancer.

Permission of the instructor required.

Enrollment limited to 15 students.

4 points. W 4:10-6:00. S

SOC V 3200y. Gender, Class and Race.

An examination of the critical role that gender, class, and race play in social life, and their relationship to inequality, community, and culture. The course will focus on reactions to and perceptions of difference in the spheres of family, work, sexuality, and politics. —L. Chancer.

3 points. Tu Th 2:40-3:55. S

SOC V 3209y. Social Class and Social Mobility.

Consideration of the contemporary U.S. class structure. Discussion of barriers to mobility for minorities, women, and the poor. — E. Hirsch.

Limited to 300 students.

3 points. Tu Th 1:10-2:25. S

SOC V 3212y. Methods of Social Research.

Introduction to elementary data analysis. Definition and measurement of variables;

testing of hypotheses; interpretation of findings. Students use the computer to perform a simple analysis of a data set. — H. Ishida.

Prerequisite: Sociology V 1205x. One hour laboratory per week.

3 points. M W 2:40-3:55.

SOC V 3213x. Culture in Contemporary America.

An analysis of the values and meanings that form American pluralism, the communities that create and consume culture, and the organizations that produce and distribute culture. Examples come from popular and elite culture: American individualism, rhythm and blues, Christian fundamentalism, advertising, abstract art, Orthodox Judaism, abortion politics, Reaganism, television comedy.—J. Rieder.

3 points. Tu Th 10:35-11:50. S

SOC W 3220y. Formal Organizations and Their Problems.

Brief overview of theories about the operations and problems of different kinds of organization. Analyses of such organizations as government agencies, factories, and academic institutions. Discussion of research on the formal structures of organizations, technology, personnel qualifications, and professionalization. — E. Leifer.

3 points. M W 11:00-12:15. S

SOC 3221x. Social Disorganization: Deviance and Social Control.

A study of different theoretical approaches to deviance and an analysis of important empirical research on various forms of deviant behavior. Crime is considered within the broader context of social deviance. — P. Read.

3 points. M W 4:10-5:25. S

SOC W 3222y. Criminology.

Building upon theoretical perspectives studies in SOC W 3221(Social disorganization: Deviance and social control), theories and research relating to criminal behavior are examined. Topics include the comparative study of crime, juvenile delinquency, organized crime, and public policies to control and prevent crime.—P. Read.

3 points. M W 4:10-5:25. S

SOC W 3223x. Social Change: Development and Modernization.

Theoretical and empirical approaches to large-scale social change. Western experience is compared with that of the Third World.

Sociology

Comparative analysis of role of the state in economic and social change, given varying relationships to the world system. — T. Lunde.

3 points. Tu Th 10:35-11:50. H

SOC V 3225y. Sociology of Education.

The social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling. — H. Zuckerman.

3 points. Tu Th 1:10-2:25.

SOC V 3228y. Sociology of Medicine.

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; problems and prospects of health delivery systems. — T. Rogers.

3 points. M W 2:40-3:55. S

SOC V 3237y. Personal Relations in History.

Ideas and practices of personal relations in the Western tradition, with special emphasis on friendship, trust, loyalty, sincerity and intimacy, and their opposites, in ancient Greece, the Middle Ages and Renaissance, the Enlightenment, and contemporary society. Readings from literature, history, anthropology and sociology. — A. Silver.

3 points. M W 2:40-3:55. S

SOC W 3240x. Introduction to Japanese Society.

Japanese society and culture. Its background, development, and present status. The transformation of a non-Western, nonindustrialized society into an advanced, modern industrial society. — H. Ishida.

3 points. M W 2:40-3:55.

SOC W 3265y. Minorities and Ethnic Groups in American Life.

The role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as the tendencies to intermarry, assimilate, and conflict. Jewish,

Italian, Irish, Puerto Rican, and black groups among others are studied. — E. Litwak.

3 points. M W 4:10-5:25. S

SOC V 3303y. Female and Male. A Sociological Perspective.

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity; stresses in female-male relationships at various stages of the life cycle and in the family, occupational world and other institutional settings; class and race differences in social roles of the sexes; social policies leading to the alleviation of current problems. — M. Komarovsky.

Enrollment limited to 35 students Sign-up sheet, 317 Milbank Hall.

3 points. M W 11:00-12:15. S

SOC V 3310x. Women and Deviance.

This course examines how gender categories can bestow deviant status on women. Theories of deviant behavior are reinterpreted in light of new perspectives on gender. Proposed topics include sexuality (e.g., maternity norms, reproductive rights issues, diversity of sexual practices); mental illness; crimes by and against women; cultural representations of gender. — L. Chancer.

3 points. Tu Th 2:40-3:55. S

SOC W 3324x. Urban Sociology.

Focus on theoretical approaches to urban sociology, the historical development of U.S. cities, the importance of economic and political processes in causing urban problems, and urban protest movements as a response to these trends. — E. Hirsch.

3 points. Tu Th 1:10-2:25. S

SOC V 3320x. Social Problems.

A consideration of the historical evolution of American theories of social problems and the application of theoretical frameworks to specific problems such as poverty, homelessness, crime, and race- and gender-based discrimination. — L. Chancer.

3 points. Tu Th 9:10-10:25.

SOC W 3414x. Sociology of Literature and Culture.

Literature considered as practice, product, and institution. Topics include institutionalization, censorship, patronage, markets, responsibilities of writers, definitions of high vs. popular culture, parallels to and differences from the plastic and performing arts. — P. Ferguson.

3 points. Tu Th 11:00-12:15. S

Sociology

SOC W 3440x. Economy and Society.

Relation of market and nonmarket institutions. Application of economic reasoning to nonmarket institutions such as family, informal group, community, ethnic group; issues of power, efficiency, discrimination, and rationality. The limitations of economic concepts in dealing with power relations, authority systems, and the social origins of individual choices. — E. Leifer.

3 points. M W 11:00-12:15.

S

SOC W 3443y. The Sociology of Corporations and Markets.

A sociological analysis of market competition and the management of competition by corporate bureaucracies. Corporations and other economic agencies as social organizations. — M. Mizruchi.

3 points. M W 4:10-5:25.

S

SOC V 3555y. Sociology of Family Institutions.

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Topics include: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class,

ethnicity and race on family life; social policy and the future of the family.—L. Chancer.

3 points. Tu Th 10:35-11:50.

SOC W 3664y. Comparative Political Sociology.

Brief overview of the principal theories in comparative politics and the principal types of political systems in political evolution; the organization of politics in contemporary societies, emphasizing the dynamics of gaining, maintaining, using, and abusing political power. Relationship of political systems to social environments; methodological problems of acquiring and applying sociological knowledge of politics. — K. Barkey.

3 points. Tu Th 9:10-10:25.

SOC W 3680x. Sociology of Work and Occupation.

Problems of mobility, alienation, reward and occupational satisfaction are systematically treated through reference to theoretical and empirical works. Attention is given to the structure of careers in contemporary American society and to race and sex differences in attainment. — S. Spilerman.

3 points. Tu Th 4:10-5:25.

S

4000-level courses are open to juniors and seniors.

Spanish

Office: 208 Milbank Hall

Telephone: 854-2061, 8312

Professors

Alfred Mac Adam, Mirella Servodidio (Chair), Marcia L. Welles

Assistant Professors

Alicia Ramos, Perla Rozencvaig, Valentín Soto Borges

Lecturers

James Crapotta, Flora Schiminovich, Agueda Rayo, José Hernández

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Latin America.

Foreign Language Requirement for the Degree: First-year students with prior training in Spanish who wish to satisfy Barnard's foreign language requirement in Spanish will be placed in the appropriate language course either on the basis of their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others, must complete BC 1204. Spanish speaking students may take BC 3105x instead with permission of instructor. Transfer students should consult the department chair.

The Spanish Club facilitates joint faculty-student projects. The Club sponsors discussion sessions, films and lectures by writers, artists, and visiting scholars. The Spanish Club has traditionally been active in the production of classic and contemporary Spanish language drama, a means whereby faculty and students create a link between Barnard and the New York Hispanic communities.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Latin American or Spanish subdivisions of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

The major consists of ten courses.

Five Required Courses:

SPA BC 3115
SPA BC 3121

SPA BC 3123

SPA BC 3124
SPA BC 3125

Latin-American Culture I
The Literature of Latin America: From
the Colonial Period to Modernism
Spanish Literature in the Middle Ages
and the Early Renaissance
Literature of the Golden Age
The Struggle of Two Spains

Five Electives: to be chosen from literature and culture courses (in Spanish) in consultation with a faculty adviser.

Majors are required to write a senior thesis which will originate in one of the major's courses. In the first semester of her senior year, the student must elect a specific course and topic in consultation with her thesis adviser.

REQUIREMENTS FOR THE MINOR

Students minoring in Spanish will take SPA BC 3121, BC 3123, SPA BC 3124 and 3 electives to be chosen from literature courses (taught in Spanish).

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section.)

SPA V 1101x-1102y. Elementary Full-Year Course.

An introductory course to Spanish as a vehicle for oral and written communication. Emphasis on speaking, listening comprehension, reading and writing. Fundamentals of grammar. "Walkman" player required for homework on audio tapes.—Staff.

*No credit is given for V 1101 unless V 1102 is completed. 4 points. Sec. 1 M-F 10:00.
Sec. 2 M-F 11:00.*

SPA BC 1104x-1105y. Elementary Conversation.

Designed to be taken in conjunction with the Elementary First Year course. Conversation will be based on the material of the elementary course and will further develop oral skills for coping with everyday situations. Students may take one or both semesters. — Staff.

1 point. Tu Th 12:00-12:40.

SPA BC 1001x-1002y. Intensive Elementary Course.

Intensive alternative to Spanish V 1101-V 1102 based on the Dartmouth Intensive Language model and designed to promote rapid oral fluency. Class meets ten hours per week: five hours devoted to drill work, five hours to communicative situations. — James Crapotta, A. Ramos, and staff.

5 points. No credit is given for course BC 1101 unless BC 1102 is completed.

M Tu W Th F 9:00 and M Tu W Th F 12:00.

SPA BC 1103x. Intensive Review of Elementary Spanish.

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. To be followed by BC 1203y.— Staff.

Prerequisite: Course V1101 or the equivalent.

4 points. Sec. 1 M Tu W Th 1:00.

Sec. 2 M Tu W Th 3:00.

SPA BC 1203x, 1203y. Intermediate Course. Part I.

Further development of spoken and written communication skills. Review of grammar

and syntax. Discussion and analysis of short literary texts. Some linguistic and cultural analysis of contemporary Spanish videos and films.—Staff.

Prerequisite: V 1102 or BC 1102 or the equivalent.

4 points. x: Sec. 1, 3 M Tu W Tu 10:00.

Sec. 2, 4 M Tu W Th 3:00.

y: Sec. 1 M Tu W Tu 11:00.

Sec. 2 M Tu W Th 3:00.

SPA BC 1205x. Intermediate Course, Part I, Through Theatre.

An alternate course to Spanish BC 1203 (Students may not receive credit for both courses.), stressing oral and written skills through reading and performance of dramatic texts. Review of pronunciation and grammar through analysis of dialogue. Writing of original scripts and dramatic monologues. Videotaping of some performances. Recommended for students particularly interested in developing communicative skills. — Staff.

Prerequisite: V 1102 or BC 1002 or the equivalent.

Limited to 15 students.

4 points. M Tu W Th 11:00.

SPA BC 1204x, y. Intermediate Course, Part II.

Review of more advanced grammar points. Readings, discussions and analysis of important works by Latin American authors. Analysis and discussions of Latin American film.—Staff.

3 points. x: Sec. 1 M W F 10:00.

Sec. 2 M W F 11:00.

y: Sec. 1,3 M W F 10:00.

Sec. 2,4 M W F 11:00.

SPA BC 1206x, 1207y. Intermediate Conversation.

Designed to advance oral and listening proficiency and to increase vocabulary within a wide range of daily and contemporary topics. Materials include readings, cassettes and video tapes. Activities include role-playing, interviews, small group activities and oral reports. Some visits to Hispanic cultural events in New York City will be required.— Staff.

Recommended parallel: Spanish BC 1203, BC 1204.

Prerequisite: V 1101x-1102y or the equivalent.

2 points. M W 12:00-1:00. Not open to native speakers.

Spanish

SPA BC 3004x, 3004y. Language and World View. I, II, III.

Reinforcement and development of modern language skills through focused attention on contemporary socio-political issues of Spain and Latin America. Useful for students in Foreign Area Studies, Political Science, History, and Economics.

Prerequisite: BC 1204 or the equivalent.

3 points. Limited to 20 students.

x: I. Latin American Women Today: Facts and Fallacies.

An investigation of how language, history, ideology, popular culture and politics shape the experience of Latin American women. Students will reinforce language skills and improve their competence in formal argument in class debates and written presentations. Materials will be drawn from essays, newspapers, films, soap operas, advertising, popular music, comic strips and Indian legends. — F. Schiminovich.

Not offered in 1990-91.

II. Special Issues in Contemporary Spain.

Feature films and readings from newspapers, magazines, and journals centering on the issues confronting contemporary Spain: the transition to democracy and modernization, terrorism, regional autonomy, feminism, and sexual identity. Readings, discussions, and papers designed to improve oral and written proficiency. — A. Ramos.

M W 1:10-2:25.

y: III. Hispanics in the United States.

An investigation of the cultural and socioeconomic patterns of Hispanics in the United States, their participation in the world of entertainment, visual arts and literature and their struggle for political power. Reinforcement of oral and written Spanish. Films, newspaper and magazine articles, essays.—Perla Rozencvaig.

3 points. Tu Th 1:10-2:25.

SPA BC 3008y. Language and Film: Issues in Contemporary Spanish Cinema.

An advanced language course designed to develop listening and speaking skills through examination and discussion of three recurrent themes in Spanish films of the last quarter century: childhood memories and the Civil War; the politics of gender and the family;

alienation, addiction and despair. Emphasis on the development of vocabulary and levels of discourse as applicable to contemporary issues.—Staff.

Prerequisites: Completion of Spanish 1204 or equivalent. May not be taken concurrently with SPA 3107 or 3108. Limited to 20 students. One 2-hour viewing session and one 1-hour discussion section per week.

2 points. Tu 4:00-6:00 and Th 12:00-1:00.

SPA BC 3096y. Poetry Writing in Spanish.

Writing of at least two original works of poetry in Spanish to be read and commented upon by the group. Varied assignments designed to explore the resources of language through free association, imitation, allusions and similar techniques. Reading of contemporary Latin American women poets to provide a further context and enrich discussion.—Staff.

Prerequisites: completion of language requirement or Spanish-speaking background and permission of the instructor.

1 point. Hours to be arranged.

SPA BC 3105x. Advanced Spanish for Spanish Speaking Students.

Designed for native and non-native Spanish-speaking students who have oral fluency beyond the intermediate level but have no formal language training. Introduction to Spanish grammar with special emphasis on complex sentence structure and syntax. Writing, reading, and building new vocabulary. May be used to satisfy language requirement with permission of the instructor. — V. Soto Borges.

Prerequisite: Oral Fluency.

3 points. Tu Th 1:10-2:25.

SPA BC 3107x, BC 3108y. Advanced Oral Spanish.

Designed to advance oral and listening skills through contact with advanced authentic materials such as newspapers, news broadcasts, films and videos. Special emphasis on idiomatic expressions. Discussion and debates around controversial contemporary issues. Oral reports. Some visits to Hispanic cultural events in New York City will be required. — Staff.

2 points. M W 12:00-1:00.

LITERATURE AND CULTURE COURSES

For non-majors, all courses except BC 3129, BC 3115, and BC 3016 will count toward the distribution requirement. All departmental courses are conducted in Spanish unless otherwise stipulated.

The prerequisite for all literature courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chairman.

SPA BC 3109x. Introduction to Literary Analysis of Contemporary Authors.

Instruction in techniques of literary analysis applied to major 20th-century works representing different genres. Development of a critical vocabulary. Analysis of style, structure and content. Introduction to theories of criticism.—M. Servodidio.
3 points. M W 11:00-12:15.

SPA BC 3110y. An Introduction to Spanish Theatre. (Formerly SPA BC 3011x. II).

A study of 5 significant dramatic modes: the *comedia* (Lope de Vega), the *esperpento* (Valle-Inclán), the surrealist (García Lorca), the underground theatre of the '60s and current trends in Spanish theatre. Analysis of dramatic language and form; relationship of Spanish theatre and society.—A. Ramos.
3 points. Tu Th 10:35-11:50.

LATIN AMERICA

SPA BC 3111x. Freedom and Repression.

An exploration of the masks assumed by texts published under socio-political constraints. A critical examination of the stylistic devices and textual strategies used in works by Reinaldo Arenas, Virgilio Pinera, Manuel Puig, Isabel Allende, Rosario Ferré, Christina Peri Rossi and Alba Lucía Angel. — P. Rozencvaig.
3 points. Not offered in 1990-91. H

SPA BC 3112y. Love and Eroticism in Contemporary Latin American Literature.

An introduction to the artistic manifestations of love and eroticism and their relationship to social attitudes. Works by Gabriela Mistral, Vicente Huidobro, Neruda, Paz, Borges, Isabel Allende, Vargas Llosa and Márquez. — F. Schiminovich.
3 points. Not offered in 1990-91. H

SPA BC 3114y. Latin American Experimental Fiction.

An examination of experimental works of fiction that challenge traditional conventions and offer innovative narrative forms that dismantle genre norms, grammatical rules, conventional plots, linguistic structures, etc. Particular attention to formal aspects of literature with an emphasis on the modern perception of the relationship between subject, culture and history. Darío, Borges, Vargas Llosa, Alba Lucía Angel, Fuentes, Luisa Valenzuela.—F. Schiminovich.
Prerequisite: BC 1204 or equivalent.

3 points. M W 11:00-12:15.

H

SPA BC 3115x. Latin American Culture I.

Latin-American history, society and art, from the time of the great Indian empires to the late 19th century.—P. Rozencvaig.
3 points. M W F 11:00-11:50.

H

SPA BC 3116y. Latin American Culture II. A Socio-historical Approach.

A revisionist examination of Latin American history, politics and society. From the aftermath of the Wars of Independence (1824-1880) to contemporary Latin America in the context of its modernization and dependency. — V. Soto Borges.

3 points. Tu Th 11:00-12:15.

H

SPA BC 3117x. Literature of the Southern Cone: The Dialects of Fantasy and Reality.

An examination of the literature of the Southern Cone — Argentina, Uruguay, Paraguay and Chile; the tension between fantastic literature and literary realism. Readings include Borges, Casares, Ocampo, Onetti, Donoso, and Bastos.—A. Mac Adam.

3 points. Not offered in 1990-91.

H

SPA BC 3118y. Contemporary Mexican Literature: The Interplay of History and Narrative.

A study of Mexican historical novels as meeting places for the rival discourses of history and narrative. Works by significant Latin American authors (Yáñez, Fuentes, Paz, Poniatowska, Pacheco, Ibarguengoitia and Castellanos).—V. Soto Borges.

3 points. Not offered in 1990-01.

H

SPA BC 3119x. Literature of the Andes: Revolution and Identity.

The region of the Andes (Colombia, Ecuador, Bolivia, Peru, and Chile) has produced great poets, Mistral, Neruda, and Vallejo, as well as

Spanish

extraordinary novelists, Donoso and Vargas Llosa. This course seeks to identify the essential traits of the region's literature and relate them to its tumultuous history.—A. Mac Adam.

Prerequisites: Permission of the instructor. Satisfaction of language requirement.

3 points. T Th 10:35-11:50. H

SPA BC 3120y. Twentieth Century Puerto Rican Literature.

A study of Puerto Rican authors (Ferré, Sánchez, Vega, and Julia) and their interpretation of socio-historical development in Puerto Rico. The relationship of these texts to historical writing (e.g., Quintero Rivera), and the revisionist trend in Puerto Rican historiography.—V. Soto Borges.

3 points. Tu Th 2:40-3:55. H

SPA BC 3121x. The Literature of Latin America: From the Colonial Period Through Modernism.

From the flowering of baroque literature during the colonial period, with special emphasis on the writings of the Sor Juana Inés de la Cruz, to the renaissance of Spanish-American writing during the period of modernism. — F. Schiminovich.

3 points. Tu Th 1:10-2:25. H

SPAIN

SPA BC 3123x. Spanish Literature in the Middle Ages and the Early Renaissance.

A consideration of how east meets west in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish Literature from its origins to the early 16th century. Readings range from the epic masterpiece *El Poema del Cid* to *La Celestina* by Fernando de Rojas. A consideration of art, music and history. Visit to Cloisters. — M. Servodidio.

3 points. M W 2:40-3:55. H

SPA BC 3124y. Literature of the Golden Age.

A study of the poetry, theatre, and narrative of a society in crisis, as Spain confronts both Islam and the Protestant north, and deals with the problems of rural and urban decline. Authors include Cervantes, de Vega, Molina, and Calderón.—M. Welles.

3 points. Not offered in 1990-91. H

SPA BC 3125x. The Struggle of Two Spains.

A study of the conflicting ideologies and visions that shape the search for a national identity and ethos as reflected in 19th and 20th century writers like Larra, Galdós, Unamuno, Azorín, Baroja, Valle-Inclán and Santos.—M. Servodidio.

3 points. Not offered in 1990-91. H

SPA BC 3126y. Archetypal Patterns in Contemporary Women's Fiction.

A consideration of the relationship between contemporary fiction by women and traditional archetypal configurations. The following categories of novels will be studied: the bildungsroman (initiation into adulthood); novels of enclosure (marriage and social involvement); novels of eros (the quest for sexuality); novels of rebirth (personal transformation). Authors studied will be Laforet, Gaite, Tusquets, Alós, Moix, Montero, Roig.—M. Servodidio.

3 points. Not offered in 1990-91. H

SPA BC 3127y. Don Quijote.

A study of Cervantes' masterpiece, concentrating on the narrative models available to him and his own creation of the "Novel." Readings also include selected *Novelas Ejemplares* and critical studies. — M. Welles.

3 points. M W 2:40-3:55. H

SPA BC 3128y. Eighteenth-Century Spain: Dreams of Reason.

A study of reason and its limits in literature and art from the beginning of the Bourbon regime to the Peninsular War and its aftermath. Special emphasis on the concerns shared by Goya and enlightened leaders and writers of the period. The course will include readings by Feijóo, Cadalso, Jovellanos, L.F. de Moratín and works by Goya.—M. Welles.

Prerequisite: Satisfaction of language requirement.

3 points. Tu Th 4:10-5:25. H

SPA BC 3129x. The Culture of Spain.

History and culture of Spain: origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contribution to Western culture. Use of audiovisual materials. — M. Welles.

3 points. Not offered in 1990-91. H

SPA BC 3130y. **García Lorca: The Poet in His Contexts.**

A study of how García Lorca, though a young man when he died, managed to redirect and transform poetry and theatre in 20th century Spain. An examination of Lorca in his various contexts—his relationship to surrealism (Buñuel, Dali), to the avant-garde and to his Spanish heritage, placing Lorca within the spirit of his times and understanding his significance for contemporary readers. Readings include Lorca's poetry, theatre, and literary statements as well as relevant critical material. — A. Rayo. H

3 points. Not offered in 1990-91.

SPA BC 3132y. **Contemporary Literature: From the Avant-garde to Social Realism and After. (formerly SPA BC 3026y)**

Literary trends from García Lorca and the Generation of 1927 through the post-civil war authors, to the current generation of *novísimos*. — M. Servodidio. H

3 points. M W 1:10-2:25.

SPA BC 3133x. **Violence Disguised: Rape in Spanish Literature.**

A study of rape literature in diverse genres from the *romancero* to the present. The various narrative functions of sexual violence—as a prelude to revolution or to war and as a privilege of class—will be discussed within the context of cultural assumptions and with regard to textual sources. Readings emphasize Golden-Age writers (Lope, Cervantes, Tirso, Rojas Zorrilla, María de Zayas, Calderón), but also include contemporary works (by Lorca, Moix). — M. Welles. *Prerequisite: Satisfaction of language requirement.*

3 points. Tu Th 1:10-2:25. H

SPA BC 3034y. **Independent Research in Latin America.**

Designed for senior majors in Latin American areas to examine those aspects of Latin American culture which have the greatest significance for them. Senior essay written in consultation with the major adviser and an instructor selected from the department appropriate to the specific topics. Students may also consider a translation project. — Staff. *Open to senior majors in Latin American areas; other by written permission.*

3 points. Hours to be arranged.

COURSES IN ENGLISH

SPA BC 2001x. **Modern Latin American Narrative.**

An introduction to modern Latin American narrative for English-speaking students. The course seeks to examine the major trends in Latin American narrative from the late 19th century to the present. Readings include Machado de Assis, Borges, Cortázar, Fuentes, Márquez, and Vargas Llosa. — A. Mac Adam.

3 points. Tu Th 2:40-3:55.

H

SPA BC 2003x. **20th Century Women Poets of the Americas: Kindred Voices.**

Cross-cultural themes, images and poetics in women poets of North America and Latin America. Discussion topics include: the search for a matrilineal poetic ancestry; the revival of the goddess; the poetics of subversion. Emphasis on African American, Native American and Latina authors like Ntozake Shange, Sonia Sanchez, Mary Tallmountain. Also Gabriela Mistral, H.D., Rosario Castellanos, Claribel Alegría, Adrienne Rich. — A. Rayo.

In English.

3 points. M W 1:10-2:25.

H

SPA BC 2004y. **Literature of the Americas.**

This course posits and seeks to answer the question: Do the Americas have a common literature? It juxtaposes texts from all over the hemisphere in order to compare their use of themes and genres. Among the authors to be read are Sor Juana Inéz de las Cruz, Emily Dickinson, Poe, Borges, Faulkner, Marquez, Hawthorne and Fuentes. — A. Mac Adam.

3 points. Tu Th 2:40-3:55.

H

SPA BC 2017x. **Don Quixote and Its Influences.**

Ways in which authors and critics have understood and reinterpreted the character of Don Quixote and have been inspired by Cervantes' narrative techniques and thematic preoccupations. Emphasis on problems of satire, dreams and reality, idealism and materialism and the self-conscious narrative. Authors to include Cervantes, Fielding, Dickens, Galdós, Dostoevsky, Flaubert, Unamuno, Pirandello, Borges, Greene and Barnes. — J. Crapotta.

3 points. Not offered in 1990-91.

H

Spanish

SPA BC 2018y. The Comedies of García Lorca and Others.

3 points. Not offered in 1990-91.

H

MRS BC 3087y. Spain of the Hapsburgs: A Culture in Crisis.

A survey of the crises that beset Spain during the 16th and 17th centuries. The course focuses on the role of art and literature in the formation of national ideology. Readings include the *Lazarillo de Tormes*, St. John of the Cross, Cervantes, and Lope de Vega. — M. Welles.

3 points. Not offered in 1990-91.

H

SPA C 3333x-C 3334y. Masterpieces of Spanish Literature (in Spanish).

3 points. Tu Th 2:40-3:55.

H

SPA C 3725x-C 3726y. Masterpieces of Latin American Literature (In Spanish).

3 points. Tu Th 1:10-2:25.

H

AREA COURSES

For information on Latin American and Spanish Area courses, see listings under Foreign Area Studies.



Statistics

Office: 618 Mathematics Building

Telephone: 854-3652

Officers of the University offering courses in Statistics:

Professors

Yuan Shih Chow, Cyrus Derman (IEOR), Ioannis Karatzas, Michael Pinedo (IEOR), David Yao (IEOR)

Assistant Professors

Victor de la Peña (Departmental Representative, 624 Math), Colin Goodall (Visiting), Jan Winnicki, Yannis Yatracos

Special Lecturer

Howard Levene

Adjunct Professors

Vaclav Benes, Peter Welch

Adjunct Associate Professor

Cunhui Zhang

Adjunct Assistant Professors

Khosrow Dehnad (IEOR), Demissie Alemayehu

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult your respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major:

Mathematics V 1101, V 1102 and V 3202, or their equivalents

Statistics-Operations Research W 3611, or Statistics-IEOR Math W 3658

Statistics W 3659, W 3662 and W 3701.

One approved course in computer science beyond the introductory level and 5 additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least 2 of which must be statistics courses numbered above 4100.

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in statistics requires 5 courses minimum in statistics including:

W 3611 (or W 3658), W 3612 (or W 3659), W 3662, and any statistics course numbered above 4100; also one approved course in computer science.

Statistics

COURSES OF INSTRUCTION

STA W 1001x,y. Introduction to Statistical Reasoning.

Intended for students in non-quantitative fields. Elementary treatment of basic ideas in probability and statistics. Frequency graphs, measures of centrality, spread and association; notions of probability and conditional probability; binomial distributions and normal (bell curve) approximation. Sampling, estimation; tests of significance, regression.

Prerequisite: some high school algebra.

*3 points. x: Tu Th 10:35-11:50. V. de la Peña.
y: Tu Th 6:10-7:25. J. Winnicki.*

STA W 1111x,y. Introduction to Statistics.

An introduction to the principles of quantitative reasoning and methods of statistics, with applications to social and natural sciences. Elements of data analysis. Graphical and numerical summaries of data. Probability and distributions of random variables. Statistical inference. Tests of hypotheses. Estimation of unknown parameters. Comparing treatment with control. Basic concepts of correlation with regression analysis.

Prerequisite: High school mathematics through intermediate algebra. This course may be followed by W 3701 or appropriate courses in statistics given by other departments.

*3 points. x: Tu Th 10:35-11:50. C. Goodall.
y: Tu Th 6:10-7:25. V. de la Peña.*

Statistics-IEOR STI W 3611x. Probability and Statistical Inference I.

Probability theory. Important distributions. Central limit theorem. Introduction to data analysis. Estimation: point and confidence intervals. Hypothesis testing. — C. Derman.

*Prerequisite: A working knowledge of calculus.
3 points. M W 1:10-2:25.*

Statistics-IEOR STI W 3612y. Probability and Statistical Inference II

Principles of statistical inference. Statistical decision problems. Maximum likelihood estimation. Nonparametric procedures. Correlation and curve-fitting. Applications of probability theory and statistics to engineering, natural and social sciences. — C. Derman.

Prerequisite: Statistics W 3611x or the equivalent.

3 points. M W 11:00-12:15.

Statistics-IEOR STI W 3658x. Probability.

Fundamentals of probability theory. Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem. — D. Yao.

*Prerequisite: a working knowledge of calculus.
3 points. M W 1:10-2:25.*

STA W 3659y. Statistical Inference.

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, natural and social sciences. — C. Goodall.

Prerequisite: Statistics-IEOR W 3611 or W 3658 or the equivalent.

3 points. W 6:50-9:20.

STA W 3662x. Regression and Analysis of Variance.

Simple linear regression. Multiple regression. Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way factorial designs. Multiple comparisons. Components of variance models. Elements of experimental design; randomized blocks and Latin squares. — H. Levene.

Prerequisite: Statistics W 3659 or the equivalent, linear algebra, and computer programming.

3 points. W F 4:10-5:25.

STA W 3701y. Introduction to Data Analysis.

Data analysis using the computer statistical package Minitab and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format. — C. Goodall.

Prerequisite: A one-term introductory statistics course.

3 points. M 6:30-9:20 and two hours of laboratory to be arranged.

Statistics-IEOR STI W 4105x,y.

Probability.

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong laws of large numbers; Central Limit theorem.

Prerequisite: A working knowledge of calculus. Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior-undergraduate or M.A. level.

3 points.

x: M 6:30-9:00. C. Zhang.

y: M 6:50-9:20. J. Winnicki.

Statistics-IEOR STI W 4150x,y.

Introduction to Probability and Statistics.

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression.

Prerequisite: A working knowledge of calculus.

3 points. x: W F 4:10-5:25. D. Alemayehu.

y: Th 6:30-9:20. K. Dehnad.

Statistics-IEOR STI W 4606x, y.

Elementary Stochastic Processes.

Review of elements of probability theory. Poisson process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time Markov chains and applications to queueing theory, inventory models, branching processes. — x: Y. Chow; y: M. Pinedo.

Prerequisite: Statistics-IEOR W 3658, Statistics-IEOR W 4105 or the equivalent.

3 points. y: Tu Th 4:10-5:25.

STA W 4115y. Multivariate Statistical Inference.

Multivariate normal distribution, multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis. — M. Gu.

Prerequisite: Statistics W 3662 or 4112 or the equivalent.

3 points. M 6:30-9:00.

STA W 4137x. Times Series Analysis.

Least squares smoothing and prediction, linear systems. Fourier analysis and spectral estimation. Discussion of the impulse response and transfer function. Fourier series, the fast Fourier transform algorithm, auto-correlation function and spectral density. Univariate Box-Jenkins modeling and forecasting. Emphasis will be on practical applications and the theoretical foundation necessary for understanding and extending these applications in examples from the physical sciences, social sciences and business. Sample output from an interactive graphical-statistical system will be an integral part of the lectures. Emphasis on the role of computer graphics, using an interactive graphical-statistical system. — P. Welch.

Corequisite: W 3662 or the equivalent.

3 points. Th 4:10-6:40.

STA W 4141y. Sequential Methods in Statistics.

An introduction to the methods of sequential analysis in statistics. Emphasis is on developing an understanding and working knowledge of sequential methods currently of interest in practice, as well as others expected to be of practical importance in the near future. Topics include: two-stage sampling procedures, repeated significance testing, sequential (stochastic) approximation, decision theory in a sequential setting, and sequentially determined sampling designs. In addition, several current issues of importance in medicine and operations research are discussed.—C. Zhang.

3 points. M 6:50-9:00.

STA C 3997x or y. Independent Research.

Prerequisite: The permission of a member of the department. May be repeated for credit. The student participates in the current research of a member of the department and prepares a report on the work. — Staff.

3 points.

Theatre

Office: 230 Milbank Hall

Telephone: 854-2079, 2080

Adjunct Professor and Director of the Minor Latham Playhouse

Paul Berman (Chair)

Adjunct Associate Professors

Gordon Gray, Elizabeth Swain

Adjunct Assistant Professors

Christopher Barreca, Elizabeth Covey, Gregor Paslawsky, Stephen Strawbridge, Neal Ann Stephens, Ann McDonough

The Theatre Department offers the student three tracks for concentration: Performance (Acting and Directing), Design and Technical Theatre, and Critical and Historical Studies. Within the context of Barnard's Liberal Arts program the student is provided with the opportunity to develop a strong intellectual and artistic approach to the work. Although the department offers a Theatre History sequence, an Acting and Directing sequence and a Design and Technical Theatre sequence, additional courses in Dance, Art History, Literature, Music, and Dramatic Literature are to be undertaken outside the department.

The Liberal Arts experience is of great importance to the student who must learn to analyze texts, research historical, social and cultural contexts and make critical decisions, all of which lend to the artistic rendering of a play.

Students will perform in works in the Marion Victor Studio as part of class work and projects, and in larger productions serving the university community in the Minor Latham Playhouse.

All theatre majors will have responsibilities relating to major productions in the areas of Acting, Design, technical work or dramaturgy.

REQUIREMENTS FOR THE MAJOR

Students intending to major in Theatre should consult with the Chairman in their sophomore year to plan a program.

Required Courses

ETR BC 3131

History of the Theatre: Greeks to Shakespeare

ETR BC 3132

History of the Theatre: Shakespeare to the 19th-Century

ETR BC 3133

History of the Theatre: Modern Period

Three courses in dramatic literature as set forth below:

ENG BC 3163 or BC 3104

Shakespeare

One course selected from the following:

CLL V 3123

Classical Literature: Greek Drama and Its Influences

GRE BC 3305

Tragedy

ENG BC 3169

English Drama: 900-1645

ENG BC 3186

Modern Drama

ENG BC 3163

Shakespeare

or ENG BC 3164

FRE BC 3034

The French Theatre of the 17th-Century

FRE BC 3039

Twentieth Century French Theatre

GER BC 3018

Schiller and Kleist

GER BC 3026

Post-War German Theatre

ITA V 3641

Italian Theatre in the Renaissance

SPA BC 2018

Comedies of Garcia Lorca and Others

SPA BC 3018

Literature of the Golden Age

Theatre

(Other courses in dramatic literature may be substituted with permission of the Chair.)

ETR BC 3134, *Special Seminar in Contemporary British Theatre*, or THR BC 3140, *Special Seminar: Women in Theatre*, or other special seminars in Dramatic Literature.

Six additional courses to be chosen in consultation with the departmental adviser from the following:

THR BC 3001	<i>Acting I: Introduction to Acting</i>
THR BC 3002	<i>Acting II: Mask</i>
THR BC 3003	<i>Acting III: Clown</i>
THR BC 3004	<i>Acting IV: Beginning Scene Study</i>
THR BC 3005	<i>Acting IV: Advanced Scene Study</i>
THR BC 3006	<i>Problems in Style: Shakespeare</i>
THR BC 3131	<i>Basic Design for the Theatre</i>
THR BC 3132	<i>Scenic Design</i>
THR BC 3133	<i>Costume Design</i>
THR BC 3134	<i>Lighting Design</i>
THR BC 3201	<i>Directing I</i>
THR BC 3202	<i>Directing II</i>
THR BC 3500	<i>Special Studies in Theatre</i>
ENG BC 3113	<i>Dramatic Writing</i>
ENG BC 3121	<i>The Uses of Speech</i>
ENG BC 3124	<i>Oral Interpretation of Dramatic Literature</i>
ENG BC 3127	<i>Public Speaking</i>
ITA V 3642	<i>Studies in Contemporary Italian Arts</i>
ITA V 3034	<i>Italian Renaissance: Courts and the Theatre</i>
MUS V 1005	<i>The Opera</i>
DAN BC 2561	<i>Anatomy for the Dancer and Technique</i>
DAN BC 2562	<i>Movement Analysis and Technique</i>

(Other courses pertinent to study of theatre-related subjects may be substituted with the permission of the Chair.)

The junior theatre major must complete the course

ARS BC 3031x *Imagery and Form in the Arts*

The senior theatre major must complete a semester-long thesis course, either in the area of Performance, or within the areas of History, Dramaturgy, Criticism.

THR BC 3997 *Senior Project: Performance*
 THR BC 3998 *Thesis Course in History, Dramaturgy, Criticism*

All students wishing to take acting courses above Acting I must audition once a semester for advice and placement.

COURSES OF INSTRUCTION

THR BC 3001x,y. Acting I: Introduction to Acting.

An introduction to the process of acting. Development of the actor's instrument focusing on the body, voice, the senses and the imagination. Classes will consist of physical exercises, games, theatre exercises, improvisation, discussion and presentation of assignments.

3 points.

x: Sec. 1 Tu Th 12:00-1:50. G. Paslawsky.

Sec. 2 Tu Th 10:00-11:50. E. Swain.

Sec. 3 Tu Th 2:10-4:00. G. Paslawsky.

Sec. 4 M W 12:00-1:50. A. McDonough.

Sec. 5 M W 2:10-4:00. A. McDonough.

y: Sec. 1 Tu Th 10:00-11:50. G. Paslawsky.

Sec. 2 Tu Th 2:10-4:00. G. Paslawsky.

Sec. 3 M W 12:00-1:50. A. McDonough.

Sec. 4 M W 2:10-4:00. A. McDonough.

2 additional hours to be arranged.

THR BC 3002x, y. Acting II: Mask.

Continuing the development of skills acquired in Acting I. The focus is on acting as a process of discovery. The mask is used as a tool to free the actor physically, vocally and

Theatre

psychologically. Classes consist of increasingly structured improvisations developing character work and ensemble.—G. Gray.

Prerequisite: Acting I and/or placement audition.

3 points.

Sec.1 M W 10:00-11:50.

Sec.2 M W 2:10-4:00.

2 additional hours to be arranged.

THR BC 3003y. Acting III: Clown.

A development of the acting process using the European clown tradition. Through the discovery of a clown persona, students will explore truth and spontaneity with other actors and an audience. — G. Paslawsky.

Prerequisite: Acting II and/or placement audition.

Prerequisites or corequisites for non-majors: ETR BC 3131, 3132, 3133, or the equivalent.

3 points. Tu Th 12:00-1:50 plus 2 additional hours to be arranged.

THR BC 3004x. Acting IV: Beginning Scene Study.

Development of the actor's ability to live truthfully, moment to moment under the imaginary given circumstances of a text. Classes consist developing the actor's concentration, emotional preparation, use of creative fantasy and personalization as applied to scene work. Considerable time is spent outside class on preparation for exercises and rehearsals for scene presentations.—G. Gray.

Prerequisite: Permission of the instructor.

3 points. M W 12:00-1:50 plus 2 additional hours to be arranged.

THR BC 3005y. Acting V: Advanced Scene Study.

Development of the actor's ability to live truthfully, moment to moment, from the point of view of the character, under the imaginary given circumstances of a play. Classes consist of scene work emphasizing building a character and creating a role. Five scene assignments with outside preparation and rehearsal will be required.

3 points. Not offered in 1990-91.

THR BC 3006y. Acting VI: Problems in Style.

Course designed to broaden knowledge of periods, writers, works, genres and theories through rehearsal and performance, oral reports, textual analyses, and investigation of cultural and aesthetic background of specific works.—E. Swain.

Prerequisite: Permission of the instructor.

3 points. Tu Th 10:00-11:50 plus 2 additional hours to be arranged.

ETR BC 3131y. History of Theatre: The Greeks to Shakespeare.

Study of theatre literature and theatre practice in the Greek and Roman periods through the Middle Ages and the Renaissance. — P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55.

H

ETR BC 3132x. History of Theatre: Shakespeare to the 19th Century.

Study of theatre literature and theatre practice from the Elizabethan period to the nineteenth century. Focus on Shakespeare, the English Restoration, Spanish, French, and German drama of the period. — P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Not offered in 1990-91.

H

ETR BC 3133x. History of Theatre: Modern Period.

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavsky, Meyerhold, Artaud, Brecht, Grotowski and Brook, the innovations of Craig, Appia and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw and other playwrights up to modern times. — P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55.

H

THR BC 3131x. Basic Design for the Theatre.

The basic concerns, methods, and tools of the designer, focusing on problems of conceptualization, the designer's encounter with the text, and the translation of concept into plastic stage image in set, costume, and lights. The course includes guest lecturers from professional theatre. — S. Strawbridge.

3 points. Tu Th 9:10-10:25.

THR BC 3132x. Scenic Design.

Study and practice of the basic elements of scenic design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. — C. Barreca.

3 points. M W 12:10-1:25. Laboratory hours to be arranged.

Theatre

THR BC 3133y. Costume Design.

Study and practice of the basic elements of costume design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. — E. Covey.

3 points. M W 2:40-3:55. Laboratory hours to be arranged.

THR BC 3134y. Lighting Design.

Study and practice of the basic elements of lighting design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. — S. Strawbridge.

3 points. Tu Th 9:10-10:25. Laboratory hours to be arranged.

THR BC 3500x, y. Special Studies in Theatre.

Special problems in the theatre for actors, directors, designers and critics. — P. Berman and theatre staff.

Prerequisite: Permission of the instructor. 4 points. Hours to be arranged.

ETR BC 3134y. Special Seminar in Contemporary British Political Theatre.

An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakoff, Keeffe and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre. — E. Swain.

Prerequisite: One semester of theatre history or permission of the instructor.

Alternate years.

3 points. Offered in 1991-92.

H

THR BC 3140x. Special Seminar: Women in Theatre.

The course will explore different images of women as presented in dramatic literature of various countries and historical periods, and of women's evolving roles as practitioners of theatre: as playwrights, directors, actresses, etc. — E. Swain.

Enrollment limited to 15 students.

Alternate years.

3 points. F 2:10-4:00.

H

THR BC 3201x. Directing I.

Script analysis for the director and the examination of texts according to structure and metaphor, within a theoretical framework. From this study the student proceeds to an exploration of the director's production concept: its formulation through analysis and rehearsal process, and realization in theatrical terms. The works of seminal directors and theorists such as Stanislavsky, Artaud, Meyerhold and Brecht will be dealt with in depth. — P. Berman.

Prerequisite: THR BC 3001.

3 points. Tu Th 12:00-1:50.

THR BC 3202y. Directing II.

An advanced course concentrating on problems of style and work with the playwright. The student will direct a play for public performance at the end of the semester. — P. Berman.

3 points. Tu Th 12:00-1:50.

THR BC 3997. Senior Project: Performance.

A performance in the areas of acting (in a one-woman show), directing or designing a play. The student will demonstrate proficiency in her area. A paper demonstrating research performed and process evolved will also be required. — P. Berman.

Enrollment limited to senior Theatre majors. 3 points. Hours to be announced.

THR BC 3998. Thesis Course in History, Dramaturgy, Criticism.

The student will write a research paper of substantial length encompassing a historical or critical event in the history of theatre. The student will choose a specific subject in terms of playwriting, history, dramaturgy and style, and relate it to the political, philosophical and social events of an era. — P. Berman.

Enrollment limited to senior Theatre majors. 3 points. Hours to be announced.

Urban Affairs

Office: 406 Lehman Hall

Telephone: 854-3866, 8422

This program is supervised by the Committee on Urban Affairs.

Professor of Political Science

Demetrios Caraley (Chair)

Assistant Professor of Urban Affairs and Political Science

Ester Fuchs, Program Representative

Professor of Anthropology

Paula G. Rubel

Professor of Economics

Deborah D. Milenkovitch

Assistant Professor of History

David Farber

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Affairs can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

a) Eight courses distributed as follows:

One course dealing primarily with urban subject matter in **each of three** of the following departments from among those courses indicated:

Anthropology V 3100

Economics W 3228

History W 4673 or W 4674

Political Science W 3313

Sociology V 3265

Anthropology of Urban Life

The Urban Economy

American Urban History

American Urban Politics

Minorities and Ethnic Groups in American Life

Urban Sociology

or Sociology V 3324

(or their equivalents)

One course dealing primarily with urban subject matter from a list approved by the committee in **one** other department such as art history, architecture, English, geography, psychology, and urban planning. One course in a quantitative subject — statistics, computer science, or an equivalent methodology course. The list of specific courses and of the departments that offer specializations for urban affairs majors is available at the office of the Program Representative.

In the junior year:

Urban Affairs V 3545-3546

Junior Colloquia V3545: Shaping of the Modern City

V3546: Contemporary Urban Problems.

In the senior year:

Research Seminar in the department of concentration

and

b) The satisfactory completion of not fewer than **five** courses in the department of concentration and the writing in that department of a senior thesis on an urban topic.

REQUIREMENTS FOR THE MINOR

There is no minor in Urban Affairs.

COURSES OF INSTRUCTION

UAF BC 3535x. Colloquium in Urban Administration and Management.

Processes of administration and management of cities. Executive leadership, decision-making bureaucracy, budgeting and personnel. — J. Thompson.

Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Enrollment limited to ca. 20 students.

4 points. Th 4:10-6:00.

UAF BC 3537x. Workshop in Urban Administration and Management.

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week. — J. Thompson.

Corequisite: Urban Affairs BC 3535x.

2 points.

Urban Studies UST V 3545x-V 3546y.

Junior Colloquium in Urban Affairs.

Autumn Term: Shaping of the Modern City. An introduction to the historical process and social consequences of urban growth. Reading and discussion focus on origin and current status of urban problems. — D. Farber.
Th 2:10-4:00.

Spring Term: Contemporary Urban Problems. Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health. — E. Fuchs. *W 11:00-12:50.*

Prerequisite: Permission of the instructor.

Enrollment limited to 15-20 students.

4 points.

Political Science-Sociology PSS V 3994x-V 3995y. New York Area Undergraduate Research Program.

An ongoing program that develops an urban research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. — J. Russell.

Prerequisite: Enrollment limited to 10-15 students, selected by application only to the instructor. Junior or senior standing is required. Participation is for two terms.

4 points. Th 11:00-12:50.

Women's Studies

Office: 203 Barnard Hall

Telephone: 854-2108

This department is supervised by the Committee on Women's Studies.

Professor of Psychology

Lila Braine

Assistant Professor of Political Science

Leslie Calman

Assistant Professor of Economics

Maria Crummett

Associate Professor of Classics

Helene Foley

Professor of Women's Studies (Columbia)

Martha Howell

Professor of English

Maire Jaanus

Director of the Center for Research on Women

Temma Kaplan

Professor Emeritus of Sociology

Mirra Komarovsky

Professor of Women's Studies and Art History

Natalie B. Kampen (Chair)

Associate Director of the Center for Research on Women

Ruth Farmer

Assistant Professor of Sociology

Theresa Rogers

Associate Professor of History

Rosalind Rosenberg

Director of the Education Program

Susan R. Sacks

Associate Professor of English

Celeste Schenck

Lecturer in Spanish

Flora Schiminovich

Professor of Spanish

Marcia Welles

Professor of History

Suzanne Wemple

Adjunct Associate

Jane Bennett

Student Members

Women's Studies Majors, class of '91

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by recent scholarship on gender and its relation to other systems of cultural/political difference: race, class, ethnicity, and sexual orientation. Some of the issues touched on in these fields are: questions about the distribution of power, work and resources in the U.S. and elsewhere; the symbolic representation of identity in literature, religion and art; the redefinition of "history" through the study of gender, ethnicity, race, and class; the historical place(s) of lesbian lives; the notion of cultural "roles" for women and men; and the shape of political movements which take gender as an organizational basis.

Women's Studies

Early in their sophomore year, students interested in the major should consult the Chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major (see p. 38); and have access to Columbia graduate courses, as well as V-courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Women's Center maintains an extensive and expanding resource collection on women's issues. The Center also sponsors monthly women's issues luncheons and a yearly conference, *The Scholar and the Feminist*, devoted to the exploration of the relationship of feminist studies to traditional scholarship.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills and focus their studies in one of two areas of concentration: humanities **or** social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments. No minor is offered in Women's Studies.

Starting with the Class of 1989, the requirements for the major are 14 courses to be distributed as follows:

Women's Studies BC 3111

*Major Texts of the Feminist Tradition I:
Wollstonecraft to Beauvoir.*

Women's Studies BC 3113

*Major Texts of the Feminist Tradition II:
Beauvoir to the Present*

Women's Studies V 3112

Colloquium in Feminist Theory

Women's Studies V 3521-3522

Senior Research Seminar

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social science/history) and one in the other area (V 1001 may count in either area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to engage in original, interdisciplinary research and to bring to bear the theoretical emphasis of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599, *Independent Research*.

REQUIREMENTS FOR THE MINOR

No minor is offered in Women's Studies.

Women's Studies

COURSES OF INSTRUCTION

WMS V 1001y. Women and Men: Power, Politics, Poetry.

An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory. — C. Schenck, E. Blackmar.

3 points. Tu 2:10-4:00. Discussion Th 2:10-4:00. H

WMS BC 3111x,y. Major Texts of the Feminist Tradition I: Wollstonecraft to Beauvoir.

The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J. S. Mill, A. Kollontai, Zora Neale Hurston, Emma Goldman, C. P. Gilman, Simone de Beauvoir and others in an attempt to discover the roots of the contemporary feminist movement.

Permission of the instructor required.

Enrollment limited to 20 students.

4 points. x: M 2:10-4:00.

y: W 2:10-4:00.

S

WMS BC 3113x,y. Major Texts of the Feminist Tradition II: Beauvoir to the Present.

Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language and cultural representations.

Permission of the instructor required.

Enrollment limited to 20 students.

4 points. x: W 2:10-4:00.

y: M 2:10-4:00.

H

WMS V 3112x. Colloquium in Feminist Theory.

An exploration of the relationship between new feminist theory and feminist practice both within the academy and in the realm of political organizing. — N. Kampen.

Prerequisite: Major Texts I or II and permission of the instructor required.

4 points. Tu 2:40-5:30.

WMS V 3115x. Workshop in Women's Organizing.

An optional course co-requisite with V 3112x. An opportunity to investigate feminist theory in practice through involvement in NYC organizations.—N. Kampen.

Permission of the instructor required and co-registration with WMS V 3112.

2 points.

WMS BC 3117y. Women and Film.

A critical interpretation of genre films from a feminist perspective — how the image of woman relates to the language of film. — Instructor to be announced.

Enrollment limited to 40 students.

3 points. M W 4:10-6:00.

H

WMS BC 3120y. The Invisible Woman in Literature: The Lesbian Literary Tradition.

An interdisciplinary exploration of the lesbian experience.

4 points. M 10:00-12:00.

H

AWS BC 3123y. Women and Art.

A discussion of the methods necessary to analyze visual images of women in their historical, racial and class contexts, and to understand the status of women as producers, patrons and audiences of art and architecture. — N. Kampen.

3 points. Not offered in 1990-91.

WMS BC 3501y. Comparative Feminisms.

Exploration of commonalities and differences among feminist movements in Asia, Latin America, the Middle East, and Africa.—L. Calman and M. Crummett.

Suggested prerequisite: POS BC 3007 or ECO BC 2024.

3 points. Tu Th 10:35-11:50.

WMS V 3521x, 3522y. Senior Seminar.

Individual research in Women's Studies conducted in consultation with the instructor. The results of each research project submitted in the form of the senior essay, and presented to the seminar.— N. Kampen.

Prerequisites: BC 3111, BC 3112, or permission of the instructor.

Enrollment limited to senior majors.

4 points. M 3:00-5:00.

WMS BC 3599x, y. Independent Research.

3 or 4 points. Hours to be arranged. Instructor to be announced.

Women's Studies

English-Women's Studies EWS BC 3144y. Minority Women Writers in the United States.

Literature of 20th century minority women writers in the United States, with particular emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework.— Q. Prettyman.

3 points. Tu Th 2:40-3:55.

H

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS

Students should consult the departmental and program listings for course descriptions.

Anthropology ANT V 3830y. Colloquium: Male and Female; Monotheisms and Polytheisms.

— L. Combs-Schilling.

Anthropology ANT V 3712x. Lines that Divide: Race, Class, and Gender in Contemporary American Society.

— K. Newman.

Anthropology ANT V 3717y. Ties that Bind: Institutions and Communities in Contemporary American Society.

— K. Newman.

Classical Civilization CLC V 3158y. Women in Antiquity.

—H. Foley.

East Asian EAS V 3650y. The Family in Chinese History.

—R. Hymes.

Economics ECO BC 2010x. Sex, Discrimination, and the Division of Labor.

—C. Conrad.

Economics ECO BC 2024y. Women in International Development.

—M. Crummett.

English ENG BC 3140x. Explorations of Black Literature: The Harlem Renaissance.

Q. Prettyman.

English BC 3997x, 3998y. Senior Seminars in Literature.

27. Slavery: The Woman's Experience.

—Q. Prettyman.

3998y. 1. The Middle Ages: Medieval Heroines.

—T. Szell.

2. The Renaissance: Gender in the Age of Shakespeare.

—E. Ryding.

6. Modern Literature: Feminist Poetics.

—C. Schenck.

English ENG W 3451y. Literature of Empire: Women and Imperialism.

—A. McClintock.

English Eng W 3661y. Colloquium on Feminist Theory: Black Women in American Culture.

—M. Blount.

English ENG C 3971x. Studies in Feminism.

—J. Howard.

English ENG C 3773x. American Women Poets.

—P. Wald.

English Eng W 3933x. The Ideology of Gender.

—S. Winnett.

English Eng W 3960x. Men and Women in Victorian Fiction.

—C. Bonica.

French FRE BC 3020y. Special Themes in Modern French Literature: Writing, Race, and Gender.

—C. Pratt.

German GER BC 3061x. The Portrayal of Women in Keller, Hebbel, and Fontane.

—G. Sakrawa.

German GER W 3448x. Women in 19th-Century Literature.

—Instructor to be announced.

History HIS BC 3406x. History of Women in the Middle Ages.

—S. Wemple.

History HIS BC 3427x. Women, Class and Culture.

—D. Valenze.

History HIS BC 3074y. History of Sexuality.

—B. Bailey.

Women's Studies

History HIS BC 3460x. Progressive Women, 1890-1920.
—N. Woloch.

History HIS W 3792x. Gender, Race and Science.
—N. Stepan.

History HIS W 3115x. History of Women in America, 1700-1900.
—E. Blackmar.

History HIS W 3946x. Social History of 20th Century Housing and Homelife.
—E. Blackmar.

History HIS BC 3082x. American Women in the 20th Century.
—R. Rosenberg.

Italian ITA V 3225y. Italian Women Writers.
—M. Alaia.

Linguistics LIN BC 3502x. Gender Systems.
—J. Malone.

Political Science POS V 3328x. Women and American Politics.
—S. Parikh, K. Yatrakis.

Political Science POS BC 3440y. Colloquium on Women in Western Political Thought.
—L. Calman.

Psychology PSY BC 3152y. Psychological Aspects of Human Sexuality.
—W. McKenna.

Psychology PSY BC 3378x. Females and Males: A Psychological Perspective.
—C. Williams.

Psychology PSY BC 3371x. Psychology and Women.
—Instructor to be announced.

Religion REL V 3700y. Women and Religion.
—V. Nyitray.

Russian RUS V 1225x. Russian Women — Myth and Reality.
—M. Astman.

Sociology SOC V 3013x. Women, Health and Health Care.
—T. Rogers.

Sociology SOC V 3110y. Women and Deviance.
—L. Chancer.

Sociology SOC BC 3115y. Feminist Theory.
—L. Chancer.

Sociology SOC V 3303y. Female and Male: A Sociological Perspective.
—M. Komarovsky.

Sociology SOC V 3555y. Sociology of Family Institutions.
—Instructor to be announced.

Spanish SPA BC 2003x. 20th Century Women Poets of the Americas: Kindred Voices.
—A. Pizarro Rayo.

Spanish SPA HC 3004x. Latin American Women Today: Facts and Fallacies.
—F. Schiminovich.

Spanish SPA BC 3133x. Violence Disguised: Rape in Spanish Literature.
—M. Welles.

Spanish and Portuguese. SPA W 3468y. Special Topics in Spanish America: Women Writers of Latin America.—J. Franco.

Theatre THE BC 3140x. Women in Theatre.
—E. Swain.

FIRST-YEAR SEMINAR

First-year students interested in Women's Studies may wish to select their First-year Seminar from the Women in Literature and Culture cluster. See page 136.

RECOMMENDED COURSES OF RELATED INTEREST TO WOMEN'S STUDIES.

These courses do not count for major credit, but do focus in part on women's issues and issues of gender.

Anthropology ANT V 3115x. The Anthropology of Central America.
—E. Crandon.

Education EDU BC 2032x. Contemporary Issues in Education.
—S. Sacks.

Women's Studies

English ENG BC 3140y. The Body in Modern Literature and Thought.
—M. Jaanus.

English ENG W 3400x. Afro-American Fiction.
—M. Blount.

History HIS BC 3066y. America in the Gilded Age.
—M. Carnes.

History HIS BC 3450y. History of Childhood in America.
—M. Carnes.

History HIS BC 3479x America in the 1960s.
—D. Farber.

Political Science POS BC 3007x. Modern Political Movements.
—L. Calman.

Political Science POS BC 3013x, 3014y. Political Theory.
—D. Dalton.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered at Reid Hall in Paris. For additional information

about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Women's Studies H 3450y. Contemporary French Thought and Feminist Theory. (Seminar)

For students in French Studies in the Humanities and Social Sciences Program.

Examines how feminist thought deals with contemporary conceptions of identity. Through a consideration of literature by women authors, the course identifies redefinitions of gender difference. — Marcelle Marini.

4 points.

Women's Studies H 3550y. Women and Society in France: Le Corps Ecrit (The Writing/Written Body). (Seminar)

For students in French Studies in the Humanities and Social Sciences Program.

Through the study of literary and artistic texts, the relations between the body and writing are addressed. Two broad areas are investigated: (I) How does the body write? Literature is produced by bodies that are either male or female and that have specific biographical itineraries; (II) How is the body written? Readings from Sartre, Giraudoux, Beauvoir, Peignot Santos, Cixous, Wittig, and others. — Instructor to be announced.



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Helen LaFave, M.A., Recruitment Program Coordinator
Sandra Mullin, B.A., Internship Program Coordinator
Anne Dubuisson, B.A., Student Employment Officer
Michelle Tullier, Ph.D., Career Counselor

Office of College Activities

Lisa B. LoParco, Ed.M., Director

Controller's Office

Gary F. Smith, MBA, C.P.A., Controller
Ricky R. White, Associate Controller
Betty Denkinger, Bursar
Barbara H. Robbins, Accounts Payable Supervisor
Nicholas L. Vaccaro, Payroll Supervisor
Roman G. Roxas, Accountant

Office of the Dean of Studies

Vilma M. Bornemann, M.A., Dean of Studies
Dorothy Denburg, Ed.D., Associate Dean of Studies
Grace W. King, Ph.D., Associate Dean of Studies
Esther Rowland, M. Phil., M.A., Associate Dean of Studies
Aaron Schneider, Ph.D., Assistant Dean of Studies
Katherine Wilcox, M.A., Assistant Dean of Studies
Constance Brown, Ph.D., Assistant Dean
Marjorie Croes Silverman, Ph.D., Assistant Dean

Office for Disability Services

Susan E. Quinby, M.A., Associate Director
Sheilah D. Mabry, Secretary

Development Office

Suzy Moser, B.A., M.A., Director of Annual Giving
Liza Chianelli, A.B., Annual Fund Officer
Anne Monteith, B.A., Annual Fund Officer
Cynthia Bennett, B.A., M.A., M.A.T., Ph.D., Grants Officer
Charles Johnson, B.A., Associate Director of Research
Geraldine Foudy, B.A., Research Assistant

Office of Financial Aid

SuzanneClair Guard, B.A., Director
Susan V. Lee, B.A., M.A., Associate Director
Gregory C. Gilbert, B.A., M.A., Associate Director
Elaine Oliver, B.S., Associate Director

Health Services

Harriette R. Mogul, M.D., Director of Health Services
Barbara Liskin, M.D., Director of Mental Health Services
Giselle Harrington, Ed.D., Program Coordinator, Health Promotion
Diana Cohen Killip, M.D., Associate Director of Health Services
Robert Bernstein, M.D., Staff Physician
Jan Khouri, R.N., Practitioner
Robert Wolkow, M.D., Staff Physician
Asha Mital, M.D., Gynecologist

Organization

Shera Aranoff, M.D., Dermatologist
Margaret Backman, Ph.D., Mental Health Staff
Sarah Fox, M.D., Mental Health Staff
Jean LeBlanc, M.S.W., Mental Health Staff
Marian Malcolm, M.D., Mental Health Staff
David Stein, M.D., Mental Health Staff
Joan Leitzer, M.D., Mental Health Staff
Kathleen Kreiger, R.N., Nurse
Theresa O’Roarke, R. N., Nurse
Ana Sussman, R.N., Nurse
Phyllis Kaplan, Office Manager

Office of Associate Dean of Students

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Liberty Program
Francesca M. Cuevas, B.A., Associate Director, HEOP
Anastasia Ingleton, B.A., Counselor, HEOP
Shirley Parker, HEOP Secretary
Mahalia Joseph, B.A., Liberty Program Coordinator; Counselor, HEOP
Alexandra Nestoras, B.A., Counselor, Liberty Program
Norman Wilkerson, B.A., STEP Program Coordinator
Ivette Vargas, B.A., Counselor, STEP
Sherry Hamlor, STEP Secretary; Liberty Secretary

Wollman Library

Eileen Agard Glickstein, M.A., M.L.S., College Librarian
Tatiana Keis, M.S., C.A.L., Reserve Room Librarian
Christina Bickford, M.S., Ed.M., Media Services Librarian
Natalia Sonevytsky, M.S., C.A.L., Reference Librarian
Mary Ellen Tucker, M.S., C.I.M., Systems Librarian
Mary Giunta, M.S., Collection Management Librarian
Karen Dobrusky, M.S., M.P.H., Assistant Reference Librarian
Kenneth Soehner, M.S., Acquisitions Librarian

Office of Management Information Systems

Frank L. Weiss, Ph.D., Director
Kathy Ungamach, Database Administrator
Tobyn Sharp, B.E.E., System Administrator
Curtis Rias, B.A., Consultant/Analyst
Madeleine Smith, Consultant/Analyst
William Bertsch, Computer Operator

Office Services

Winifred Price, Director
Myrtle Tate, B.S., Associate Director of Mail Services
Alan Anderson, B.A., Associate Director of Reprographics

Personnel Office

Albert Knight, B.A., J. D., Director
Rhondda Tewes, B.S., Associate Director
Charles Gadsden, B.A., Employment Supervisor
Mary Artis, B.A., Employee Benefits Administrator

Office of Public Relations

Ruth J. Sarfaty, B.A., M.A., Director

Office of Purchases and Stores

Paula Newman, Director

Organization

Office of the Registrar

Virginia Shaw, A.B., Registrar
Andrew W. King, M.A., Assistant Registrar
Patsy To, Assistant Registrar

Office of Student Life and Housing

Ione G.W. Gatch, Dean of Student Life
Judy Kummer, Housing Manager
Gloria Anderson, Administrative Assistant to the Dean
Cathy Webster, Resident Director, Centennial Hall
Elizabeth Bettasso, Resident Director, 600, 616, 620 W. 116th Street
Kim Stedman, Resident Director, Plimpton Hall

Office of Safety and Security

John Scacalossi, M.A., Director
Betty Weems, Associate Director
Karla Buchting, Evening Supervisor
James Kelly, Evening Supervisor
Edward Adamowicz, Night Supervisor

Office for Special Academic Programs

Flora Davidson, Ph.D., Dean
Thalassa Mansfield, A.B., Assistant to the Dean

Office of Summer Programs

Jean McCurry, B.A., M.A., Director
Eileen Macholl, B.A., M.A., Associate Director
Claudia Edwards, Assistant to the Director

The Barnard Center for Research on Women

Temma Kaplan, Director
Ruth Farmer, Associate Director
Bernita Dorch, Assistant to the Director
Kim Kupperman, Resource Collection Manager

XIV. The Associate Alumnae

The Associate Alumnae of Barnard College is comprised of 28,200 members from all fifty states of the Union and more than 63 countries abroad. Members include all who have completed a year or more of study at Barnard and have left in good academic standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive *Barnard Alumnae* magazine, *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

The Associate Alumnae serve the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in the support of the College.

Barnard Alumnae Council, a nationwide group of alumnae leaders, meets annually on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 50 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

The Associate Alumnae is governed by a 21 member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

Officers of the Associate Alumnae

Sheila C. Gordon, President

Carol Murray Lane, Vice President

Gayle Robinson, Vice President

Directors

Marcia Kanefsky Assor

Anne Bernays

Elaine Schlozman Chapnick

Leah Salmansohn Dunaief

Janet Bersin Finke

Barbara Kahn Gaba

Christine Giordano

Joan Feldman Hamburg

Debra Green Hirschman

Camille Kiely Kelleher

Toby Levy

Maureen McCann Miletta

Rumu Sarkar

Marcia Sells

Andrea Katz Stimmel

Marilyn Umlas Wachtel

Alumnae Trustees

Sheila C. Gordon

Mary Louise Stewart Reid

Martha Kostyra Stewart

Yvonne L. Williams

Office of Alumnae Affairs

Irma Socci Moore, Director

Eva Miodownik Oppenheim, Associate Director

Toni Crowley Coffee, Editor, *Barnard Alumnae*

Yvonne S. Untch, Alumnae Records Officer

Gabrielle Hanna, Alumnae Programs Coordinator

XV. Barnard Area Representatives

Barnard Area Representatives (BARs) are qualified alumnae appointed by the Admissions and Alumnae Offices who act in liaison capacity between the College and prospective students, parents, and high school counselors. BARs frequently attend college information meetings at secondary schools, host informal gatherings for prospective students, and conduct local interviews. High school students considering Barnard and interested in speaking with a BAR may arrange an interview by writing to the individual nearest them or by calling the Office of Admissions (212-854-2014). A listing of the BARs follows.

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1011 W. Las Palmaritas, Phoenix 85021

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Miss Jee Hi Park
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Section II, No. 5 of 5th Floor
Taipei 10433



XVI. Scholarship Funds

UNRESTRICTED

Mary Allen Fund (1981).

In memory of Ruth Marley.

Neils J. Allison Fund (1964).

From the estate of Beatrice C. Allison.

Alumnae Fund (1922).

Arthur G. Altschul Fund (1984).

Anna E. Barnard Fund (1899).

Joan H. Baum Fund (1977).

Frances E. Belcher Fund (1963).

Ruth Marshall Billikopf Fund (1950).

Varian White Blumberg Fund (1952).

Elizabeth M. Bogardus Fund (1976).

Charles E. Bogert Memorial Fund and Anna Shippen Young Bogert Memorial Fund (1913).

Eva-Lena Miller Booth Fund (1932).

Dorothy S. Boyle Fund (1978).

Josephine Brand Fund (1970).

Brearley School Fund (1889).

Martha Ornstein Brenner Fund (1915).

Arthur Brooks Fund (1897).

Margaret Bullova Fund (1979).

Elsa B. Bunn Fund (1980).

Elizabeth Hobe Burnell Fund (1971).

Fanny Steinschneider Clark Fund (1978).

Thomas F. Clark Students' Fund (1928).

Jennie B. Clarkson Fund (1898).

Class of 1918 Fund (1975).

Class of 1921 Fund (1931).

Class of 1925 Fund (1975).

Class of 1926 Fund (1981).

Class of 1930 Fund (1975).

Class of 1931 Memorial Fund (1981).

Class of 1933 Fund (1973).

Class of 1935 Fund (1975).

Class of 1936 Fund (1971).

Class of 1947 Memorial Fund (1982).

Class of 1953 Fund (1973).

Class of 1954 Fund (1955).

Class of 1959 Fund (1974).

In memory of Jacqueline Zelniker Radin.

Scholarship Funds

Class of 1963 Fund (1983).

Class of 1981 Fund (1982).

Martine Cobanks Fund (1973).

College Bowl Fund (1968).

Barbara Myers Cross Fund (1986).

Yvonne Moen Cumerford Fund (1972).

Caryl M. Curtis Fund (1980).

Vera B. David Scholarships (1962).

In memory of her late husband, John David.

Ethel Dawbarn Fund (1987).

Ada M. Donelle Fund (1948).

L. Adele Dorsett Fund (1971).

Helen Geer Downs Fund (1974).

Amelia Cary Duncan Fund (1976).

May Parker Eggleston Fund (1977).

Betty Eisenstadt Fund (1982).

In memory of Sarah and Israel Gillman and of Betty Eisenstadt.

Elizabeth Kramer Emmons Fund (1986).

Sarah Engel Fund (1973).

Laura Teller Ericsson Fund (1976).

Margaret Jane Fischer Fund (1968).

Fiske Fund (1895).

Edyth Fredericks Fund (1974).

Clara Lillian Froelich Fund (1979).

Doris P. Gallert Fund (1970).

Galway Fund (1912).

Helen Jenkins Geer Fund (1940).

Cecile Meister Gilmore Fund (1986).

Anita Hyman Glick Fund (1968).

Irma Alexander Goldfrank Fund (1919).

Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983).

Elsa Gottlieb Fund (1982).

Graham School Fund (1907).

Blanche Kazon Graubard Fund (1981).

Ethel C. Gray Fund (1973).

Louise H. Gregory Fund (1955).

Hetta Stapff Halloran Fund (1977).

Harkness Fund (1939).

Jane Harnett Fund (1978).

Helen May Smith Helmle Fund (1973).

Margaret Holland Fund (1975).

Scholarship Funds

Rita Hilborn Hopf Memorial Fund (1966).
Charles Evans Hughes Fund (1952).
Eleanor Levison Israel Fund (1976).
Lucie Burgi Johnson Fund (1979).
Lily Murray Jones Fund (1950).
Mildred K. Kammerer Fund (1973).
Peggy King Scholarship Fund (1986).
Mirra Komarovsky Fund (1975).
Lucile Wolf Koshland Fund (1980).
Elsie M. Kupfer Fund (1975).
Margaret Irish Lamont Fund (1978).
Augusta Larned Fund (1924).
Marjorie Hermann Lawrence Fund (1965/67).
Yves LeMay Fund (1982).
Harriett Mooney Levy Fund (1965).
Joan Sperling Lewinson Fund (1955).
Judith Lewittes Fund (1957).
Anne Elizabeth Lincoln Fund (1963).
Amy Loveman Fund (1956)
See Prizes, page 304.
Louise Grace Luby and James Luby Fund (1947).
Barbara Scoville Maarschalk Fund (1977).
Frances E. and Henry W. Martin Fund (1986).
Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970).
Cecile Lehman Mayer Scholarship Fund (1962).
Leo Mayer Fund (1972).
Adele Duncan McKeown Fund (1973).
Eloise F. McLennan Fund (1987).
Memorial Fund (1954).
Dorothy E. Miner Fund (1977).
Gladys Bateman Mitchell Fund (1980).
William Moir Fund (1912).
Gulli Lindh Muller Fund (1972).
Caroline Church Murray Fund (1918).
Annette Florence Nathan Fund (1947).
Dora R. Nevins Fund (1969).
Ann Whitney Olin Fund (1982).
Dorothy Brockway Osborne Fund (1976).
Lucretia Perry Osborn Fund (1940).
Elizabeth Palmer Fund (1972).
Jean T. Palmer Fund (1969).

Scholarship Funds

Lucy Powell Fund (1971).

M. Gladys Quinby Fund (1961).

Jacqueline Zelniker Radin Fund (1975).

Eleanor Kaiser Reinheimer Fund (1976).

Eva Rich Fund (1968).

Peter C. Ritchie, Jr., Fund (1937).

Margaret Miller Rogers Fund (1976).

Caterina Ronzoni Fund (1986).

Edith Lowenstein Rossbach Memorial Fund (1959).

Carrie W. and Corine A. Rowe Fund (1979).

Edna Heller Sachs Fund (1955).

May and Edgar Salinger Fund (1971).

In memory of Isaac and Eugenie Herrmann.

Eleanor Butler Sanders Fund (1922).

Anna M. Sandham Fund (1922).

Katherine D. Schlayer Fund (1975).

Schmitt-Kanefent Fund (1931).

Scholarship Fund (1901).

Katherine Flint Shadek Fund (1961).

Dorothy Nolan Sherman Fund (1983).

Anne Victoria Shutkin Fund (1983).

Doris Silbert Fund (1987).

Max Sloman and Jane Stanley Fund (1971).

Emily James Smith Fund (1899).

Frances M. Smith Fund (1974).

Fred Curtis Smith Memorial Fund (1955).

George W. Smith Fund (1906).

Sylvia W. Stark Fund (1981).

C.V. Starr Fund (1983).

Claire Wander Stein Financial Aid Fund (1981).

Edna Phillips Stern Fund (1952).

Eleanor Holden Stoddard Fund (1977).

Isabel Greenbaum Stone Fund (1957).

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969).

Solon E. Summerfield Foundation Fund (1960).

Thrift Shop Scholarships (1938).

From the Barnard Scholarship Unit of Everybody's Thrift Shop.

Miriam Tobias Fund (1980).

Veltin School Fund (1905).

Florence Meyer Waldo Fund (1980).

Alma F. Wallach Fund (1951).

Scholarship Funds

Dorothy Calman Wallerstein Fund (1976).

Ella Weed Fund (1895).

Hymen and Helen Werner Fund (1964).

Fern Yates Memorial Fund (1980).

RESTRICTED

Patricia Leigh (Pat) Abbott Fund (1981).

For a student or students who have overcome serious physical difficulties.

Mary Gertrude Edson Aldrich Fund (1916).

To a senior who has shown high moral qualities.

Axe-Houghton Fund (1977).

For juniors or seniors with average of at least 3.0.

Bertha R. Badanes Fund (1966).

For children of New York City school teachers preferably from Brooklyn.

Barnard College Club of Brooklyn Fund (1944).

For a student from Brooklyn.

The Barnard College Club of Detroit Fund (1958).

Preferably for a new student from Metropolitan Detroit.

Barnard College Club of Greater San Francisco Fund (1986).

For a student preferably from the San Francisco Bay area.

Barnard College Club of Houston Fund (1969).

For students from the Houston area.

Barnard College Club of New York Fund (1952).

For a student from outside New York City.

Barnard-in-Westchester Fund (1962).

Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916).

Preferably for nominees of the school.

Willina Barrick Memorial Fund (1936).

By the College Club of Jersey City for a graduate of a Jersey City secondary school.

The Annette Kar Baxter Memorial Fund (1984).

In memory of Annette Kar Baxter, '52, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

Irving Berlin Fund (1950).

For one or more Barnard students of foreign-born parentage.

June Rossbach Bingham Fund (1976).

For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

Ida Blair Memorial Fund (1937).

Preferably for a student in political science.

Thornton F. Bradshaw Fund (1986).

For transfer students.

Alice Marie-Louise Brett Fund (1930).

For a senior specializing in French.

William Tenney Brewster and Anna Richards Brewster Fund (1961).

To be awarded in amounts not less than \$1,000 preferably.

Scholarship Funds

Anne Brown Endowment Fund (1939).

For students from the City of New York.

Carpentier Residence Fund (1919).

For students who are not residents of New York City or its vicinity.

Therese Cassel Fund (1973).

For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

Eliza Taylor Chisholm Memorial Fund (1901).

Preference to nominees of the Alumnae Association of Miss Chisholm's School.

C.I.T. Financial Corporation Fund (1979).

In honor of Eleanor Thomas Elliott, '48. For a student of economics, mathematics, or political science.

Mrs. Henry Clarke Coe Fund (1910).

By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

Class of 1919 Decennial Fund (1929).

For a resident student.

Class of 1926 Emergency Student Aid Fund (1976).

For emergency financial aid.

Class of 1949 Fund (1974).

For an incoming freshman.

Charles A. Dana Fund (1982).

For students designated Dana Scholars, as specified in the guiding principles for the program.

Babette Deutsch Fund (1978).

For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

Marie Ward Doty Fund (1981).

Preferably to daughters of parents in law enforcement or related fields.

Augusta Salik Dublin Fund (1960).

For a student in a field of social welfare.

Christine H. Eide Memorial Fund (1968).

For juniors majoring in anthropology or English.

Educational and Cultural Trust Fund of the Electrical Industry (1951).

For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

May Parker Eggleston Fund (1972).

For a science student, preferably one planning to attend medical school.

English Fund (1920).

Preferably for an English major.

Gladys Renshaw Esterbrook Fund (1958).

Preferably for English or French majors.

Martha T. Fiske Fund (1911).

For a student who is not a resident of the New York City area.

Henry C. Kuever and Frederick W.A. Fuller Fund (1981).

Preferably for a student majoring in music, or in Greek or mathematics.

German Fund (1950).

See Prizes, page 305.

Scholarship Funds

Virginia C. Gildersleeve International Fund (1937).
For a foreign student.

Virginia C. Gildersleeve Fund (1968).
For a major in the humanities, preferably English.

Elizabeth Hughes Gossett Scholars (1981).
For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

Julius Held Fund (1970).
For students majoring in Art History

Emma Hertzog Fund (1904).
For a graduate of Yonkers High School.

Marion Alice Hoey Fund (1944).
Preferably for a student in Greek and Latin.

Hannah and Henry Hofheimer Fund (1975).
For a freshman.

Holland Dames Fund (1915).
For a descendant of early Dutch settlers.

Lillia Babbitt Hyde Fund (1953).
For premedical students.

Charlotte Louise Jackson Fund (1928).
For a graduate of a Yonkers High School.

Mary E. Larkin Joline Fund (1927).
For a student specializing in music.

Werner Josten Fund (1955).
Preferably for a student in music.

Jessie Kaufmann Fund (1902).
For a student who has no relative able to offer financial assistance.

Kimball Fund (1938).
For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911).
For a sophomore of exceptionally high standing.

Dr. Ann G. Kuttner Fund (1969).
Preferably to premedical students.

Eugene M. Lang Fund (1988).
Preferably for minority students.

Ethel Stone LeFrak Prize and Scholarship (1986).
For a student for excellence in the field of Arts, the balance as a grant to the prize recipient or a meritorious alternate.

Bernard Liberman Fund (1979).
For premedical students.

Carolina Marcial-Dorado Fund (1953).
For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad or to a student who is majoring in Spanish.

Raphael Marino Fund (1977).
For a student proficient in Italian language, literature, art, or culture.

Eugene F. and Minnie Gouger McGowan Fund (1955).
Preferably for students from Mecklenburg County, North Carolina.

Scholarship Funds

Fannie Moulton McLane Fund (1961).

For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906).

For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986).

Preferably for students majoring in writing, music, dance or drama.

Alice Miller Memorial Scholarship Fund (1989).

Preference to pre-medical students.

Ferry Starr Morgan Fund (1959).

For a student majoring in music or philosophy.

Lawrence Morris Fund (1968).

Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser Fund (1983).

For seniors majoring in sociology.

Lucy Moses Fund (1975).

For a premedical student. See Prizes page 303.

Ann Newman Fund (1986).

For study abroad.

Julia Fisher Papper Fund (1974).

For a senior of superior academic standing and high motivation.

Mary Barstow Pope Fund (1913).

For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934).

By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899).

Three are restricted to students from the City of New York, eight are for resident students.

Marie Reimer Fund (1953).

See Prizes, page 304.

Amelia Agostini de del Rio Fund (1955).

For a student from Puerto Rico or a student who is majoring in Spanish.

Lesley Jane Rosen Memorial Fund (1975).

For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967).

For a premedical student.

Doris Schloss Rosenthal Fund (1981).

For students majoring in courses in the Arts.

Joan Rosof Fund (1964).

For students from the State of New York.

Felix St. George Scholarship (1955).

For an incoming freshman studying physics, chemistry, or biology.

Dorothy K. Scheidell Fund (1965).

Preferably for premedical students.

Lillian Schoedler Fund (1967).

For students who show promise of civic leadership.

Scholarship Funds

Margarete Schwabe Fund (1974).

For premedical students with outstanding ability and idealism.

Roslyn Schiff Silver Fund (1982).

For junior and senior students preparing for careers in medical research.

Clarice Ann Smith Fund (1973).

For students of literature and composition.

Marion Wesley Smith Fund (1978).

For students majoring in Anthropology.

Hilda Staber Fund (1967).

For foreign students.

Estella Raphael Steiner Fund (1972).

For a senior in Biological Sciences who plans to engage in research in that field.

Beatrice L. Stern Memorial Fund (1977).

For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.

Marion Levi Stern Fund (1977).

Preferably for students in the social sciences.

Simon and Elaine Strauss Fund (1981).

For disabled students.

Emma A. Tillotson Fund (1910).

For a sophomore of exceptionally high standing.

Clara Bittenwieser Unger Memorial Fund (1938).

For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

Helen Elizabeth Vosburgh Fund (1934).

Preference to a self-supporting student.

Walter A. Wagener Memorial Fund (1984).

For students majoring in the Program in the Arts.

Gertie Emily Gorman Webb Fund (1953).

For a nominee of the Department of History.

May Hessberg Weis Fund (1981).

For students in environmental ethics and conservation.

Esther Lensh Weisman Fund (1979).

Preferably for a student majoring in English.

Allison Wier Fund (1977).

For students who are residents of Westchester County.

Elsa P. Wunderlich Fund (1978).

For a German exchange student.

Richard P. Youtz Fund (1987).

For students in the Resumed Education Program.

Alma Gluck Zimbalist Fund (1940).

For students in political science.

Gertrude Bunker Zufall Fund (1987).

For a senior premedical student. See Prizes, page 303.

Scholarship Funds

Loan Funds

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as part of students' financial aid awards.

Associate Alumnae Student Loan Fund
Barnard College Club of Cleveland Loan Fund
Barnard College Loan Fund
Ann Susan Becker Memorial Loan Fund
Marilyn Chin Loan Fund
Pauline Hirschfeld Loan Fund
Gertrude C. Hitchcock Loan Fund
Adelaide Le Ciercq Loan Fund
Swope Loan Fund
Tudor Foundation Student Loan Fund

The Morris Morgenstern Student Loan Fund provides temporary emergency assistance and is administered by the Office of Financial Aid.



XVII. Honors

The following awards were established to honor those who have shown exceptional distinction in their chosen fields of study and are administered according to the provisions of their respective donors.

Fellowships

Associate Alumnae of Barnard College Graduate Fellowship (1963).

For a graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship (1971).

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship (1930).

For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

Lillian Niederman Fellowship Award (1984).

By Doctor Miriam S. Harris in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship (1976).

For graduating seniors who show promise of distinction in such field of graduate study in art as the faculty shall determine. Holders are to pursue studies preferably abroad at a college or university of approved standing.

Grace Potter Rice Fellowship (1935).

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

Alpha Zeta Club Graduate Scholarship (1936).

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

William Mason Scholarship (1928).

Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

General

Estelle M. Allison Prize (1937).

For excellence in literature.

Mary E. Allison Prize (1937).

For general excellence in scholarship.

Annette Kar Baxter Memorial Fund Prize (1984).

For juniors who have distinguished themselves in the study of some aspect of women's experience.

Frank Gilbert Bryson Prize (1931).

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Honors

Eleanor Thomas Elliott Prizes (1973).

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity and good citizenship in the College.

Katherine Reeve Girard Prize (1964).

For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978).

For a graduating senior who will pursue a career in the field of journalism.

Alena Wels Hirschorn Prize (1986).

For a junior student journalist or a senior major in economics who also studies English literature and who wants to pursue a career in journalism.

Lucyle Hook Travel Fund (1987).

Travel grants to promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986).

To a student with a disability for active participation in the academic and extracurricular life of the College.

Ethel Stone LeFrak Prize and Scholarship (1986).

For excellence in the field of arts.

Harry Salzman Internship (1982).

An internship in Washington, D.C.

Schwimmer Prize (1986).

For an outstanding graduating senior in the humanities.

Marian Churchill White Prize (1975).

For an outstanding sophomore who has participated actively in student affairs.

Premedical

Helen R. Downes Prize (1964).

For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize (1973).

For premedical students majoring in chemistry.

Lucy Moses Award (1975).

For a premedical student likely to provide service to the medically underserved.

Gertrude Bunger Zufall Award (1987).

For a premedical student entering her senior year.

Architecture

Marcia Mead Design Award (1983).

For excellence in architectural design.

Art History

Nancy Hoffman Prize (1983).

For students who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize (1969).

For promising seniors majoring in art history.

Biological Sciences

Edna Henry Bennett Memorial Grants (1927).

For work at a biological laboratory offering summer courses.

Herbert Maule Richards Grants (1933).

For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Grants (1979).

For biological study or research.

Honors

Hermann Botanical Prize (1892).

For a proficient undergraduate student in biology.

Spiera Family Prize (1986).

For promise of excellence by a student majoring in biological sciences.

Von Wahl Prize (1915).

For advanced work in biology.

Chemistry

American Chemical Society's Division of Polymer Chemistry Award.

For outstanding work in organic chemistry.

American Institute of Chemists Prize, New York Chapter.

A subscription to "The Chemist," and a certificate of honor. For an outstanding student of chemistry.

Marie Reimer Scholarship Fund Prize (1953).

Awarded at the end of the junior year to an outstanding major in chemistry.

Bernice G. Segal Summer Research Internships (1986).

One or more internships for supervised research in the sciences during the summer.

Economics

American Statistical Association Prize, New York Area Chapter (1960).

A one-year student membership in the American Statistical Association. For an outstanding student in statistics.

Alena Wels Hirschorn Prize and Scholarship (1986).

To a junior for the best essay on the subject of domestic or international economics.

Beth Niemi Memorial Prize (1981).

For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Prize (1949).

For superior work by an undergraduate major in economics.

Sylvia Kopald Selekman Prize (1960).

For the first-year student who is doing the best work in introductory economics.

Education

Stephanie Kossoff Prize (1972).

For the student who has made the most noteworthy contribution or meaningful endeavor in childhood education.

English

Saint Agatha Muriel Bowden Memorial Prize (1971).

For superior proficiency in the study of Chaucer and medieval literature.

W. Cabell Greet Prize (1974).

For excellence in English.

William Haller Prize (1987).

For excellence in the study of English literature.

Elizabeth Janeway Prize for Prose Writing.

For a work of prose, which gives the greatest evidence of creative imagination and sustained ability.

Amy Loveman Memorial Prize (1956).

For the best original poem by an undergraduate.

Leonore Marshall Barnard Prizes (1975).

For both poetry and prose of distinction.

Sidney Miner Poetry Prize (1962).

For the senior major who has shown distinction in the reading, writing, and study of poetry.

Honors

Helen Prince Memorial Prize (1921).

For excellence in dramatic composition.

Stains-Berle Memorial Prize in Anglo-Saxon (1968).

For excellence in Anglo-Saxon language and literature.

Academy of American Poets Prize (Columbia University).

For the best poem or group of poems by a student.

Bunner Medal (Columbia University).

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Helene Searcy Puls Prize (1984).

For the best poem in an annual student competition.

Howard M. Teichmann Writing Prize (1986).

To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize (Columbia University).

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize (Columbia University).

To an undergraduate student of the University for the best original poem.

Environmental Science

Lillian Berle Dare Prize (1974).

For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize (1970).

For an outstanding student majoring in the Department of Environmental Science.

French

Helen Marie Carlson French Prize (1965).

For the best composition in fourth-term French.

Isabelle de Wyzewa Prize (1972).

For the best composition in the French course, *Masterpieces of Literature, from the Middle Ages to the Twentieth Century*.

Frederic G. Hoffherr French Prize (1961).

To a student in intermediate French for excellence in oral French.

Linda Joan Israel Prize in French (1977).

To a French major, preferably a senior, for work done in *Advanced Oral French* or *Advanced Translation into French*.

Eleanor Keller Prizes (1968).

For juniors in French literature and seniors in French culture.

Rosemary Thomas Prize in French (1966).

For evidence of a special sensitivity and awareness in the study of French poetic literature.

German

Dean Prize in German (1952).

For the senior who has throughout college done the best work in German language and literature.

German Scholarship Fund Prize (1950).

Awarded at the end of the junior year to an outstanding major in German.

Louise Stabenau Prize in German (1988).

Awarded to a junior or senior major for excellence in oral German.

Greek and Latin

John Day Memorial Prize (1986).

For a high-ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics (Columbia University).

For excellence in sight translation of passages of Greek and Latin.

Benjamin F. Romaine Prize (Columbia University).

For proficiency in Greek language and literature.

Jean Willard Tatlock Memorial Prize (1917).

For the undergraduate student most proficient in Latin.

History

Eugene H. Byrne History Prize (1960).

For superior work by a history major.

Jenny A. Gerard Medal (1908).

For the student who is most proficient in Colonial history.

Ellen Davis Goldwater History Prize (1982).

For superior work by a history major.

Italian

Bettina Buonocore Salvo Prize (1966).

For a student of Italian.

Speranza Italian Prize (1911).

For excellence in Italian.

Mathematics

Margaret Kenney Jensen Prize (1973).

To first-year students, sophomores, and juniors for excellence in mathematics.

Kohn Mathematical Prize (1892).

To a senior for excellence in mathematics.

Music

Robert Emmett Dolan Prize (Columbia University).

To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize (1986).

For a graduating senior whose creative writing in music shows promise of distinction.

Oriental Studies

Taraknath Das Foundation Prize in Oriental Studies (Columbia University).

To a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

Philosophy

William Pepperell Montague Prize (1949).

For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize (1986).

For promise of excellence by a student majoring in philosophy.

Physical Education

Margaret Holland Bowl (1974).

For excellence in leadership and participation in recreation and athletics.

Scholar Athlete Award (1981).

To the female winner of a varsity letter who has achieved the highest academic average during the two preceding semesters.

Tina Steck Award (1980).

For the most outstanding member of the Swimming and Diving Team.

Honors

Physics

Henry A. Boorse Prize (1974).

For the most promising Barnard senior in physics.

Political Science

Phoebe Morrison Memorial Prize (1969).

For a political science major planning to attend law school.

James Gordon Bennett Prize (Columbia University).

For the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States.

Caroline Phelps Stokes Prize (Columbia University).

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

Psychology

American Statistical Association Prize, New York Area Chapter (1960).

See Economics listing.

Ida Markewich Lawrence Prize (1982).

For the best paper in psychology, preferably child psychology.

Religion

Samuel Dornfield Prize (1979).

For work in Old Testament or Ancient Near Eastern Studies that reflects special sensitivity and academic excellence.

Caroline Gallup Reed Prize (1916).

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

Russian

Alice Levin Sokolik Prize in Russian (1976).

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

Spanish

John Bornemann Prize in Spanish (1976).

For superior performance in the first- or second-year language courses.

Eugene Raskin Prize.

For the best essay in fourth-term Spanish.

Spanish Prize (1959).

For a Spanish major who has done the most distinguished work in Spanish language and literature.

Ucelay Recitation Prize.

For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize. (Seven Colleges).

For the best original essay written in Spanish by a senior whose native language is not Spanish.

Theatre

Kenneth Janes Prize in Theatre (1987).

For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

Urban Affairs

Suzanne Farkas Urban Affairs Prize (1972).

For the best essay in Urban Affairs.

Honors

Women's Studies

Bessie Ehrlich Memorial Prize (1980).

For an oral history project of a female relative of a preceding generation, in conjunction with the Women's Studies Department.

Jane S. Gould Prize (1982).

For an outstanding senior essay by a Women's Studies major.



XVIII. Statistics

	1889 to 1890	1899 to 1900	1909 to 1910	1919 to 1920	1929 to 1930	1934 to 1935	1944 to 1945	1954 to 1955	1964 to 1965	1974 to 1975	1984 to 1985	1986 to 1987	1987 to 1988	1988 to 1989	1989 to 1990
Undergraduates, Regular															
Seniors.....	—	40	62	87	227	181	208	245	355	572	559	532	542	549	538
Juniors.....	—	40	122	190	237	220	314	340	414	554	563	521	559	539	527
Sophomores.....	—	37	109	193	247	226	314	317	391	488	512	555	533	546	552
First-year Students.....	14	54	188	224	311	267	324	304	415	437	531	532	522	542	487
Unclassified Students.....	—	—	—	—	54	103	56	1	8	—	—	—	—	—	—
	14	171	481	694	1076	997	1216	1207	1583	2051	2165	2140	2156	2176	2104
Special Students															
Matriculated.....	—	21	24	39	—	—	—	—	—	—	—	—	—	—	—
Nonmatriculated.....	—	—	30	22	28	29	21	20	19	33	22	21	13	16	18
Departmental (1889-1896).....	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915).....	—	41	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	28	29	21	20	19	33	22	21	13	16	18
Graduate Students															
(1890-1900).....	—	82	—	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	1104	1026	1237	1227	1602	2084	2187	2161	2169	2192	2122
Degrees Conferred															
A.B.....	—	39	88	139	247	221	270	258	367	497	612	541	534	546	552
B.S.(1909-1918).....	—	18	2	5	—	—	—	—	—	—	—	—	—	—	—
A.M.(1898-1900).....	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Ph. D.(1899-1900).....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total Bachelor's Degrees conferred 1893-1990, A.B., 25,793, B.S., 77.
These figures represent registration in the Autumn Term.

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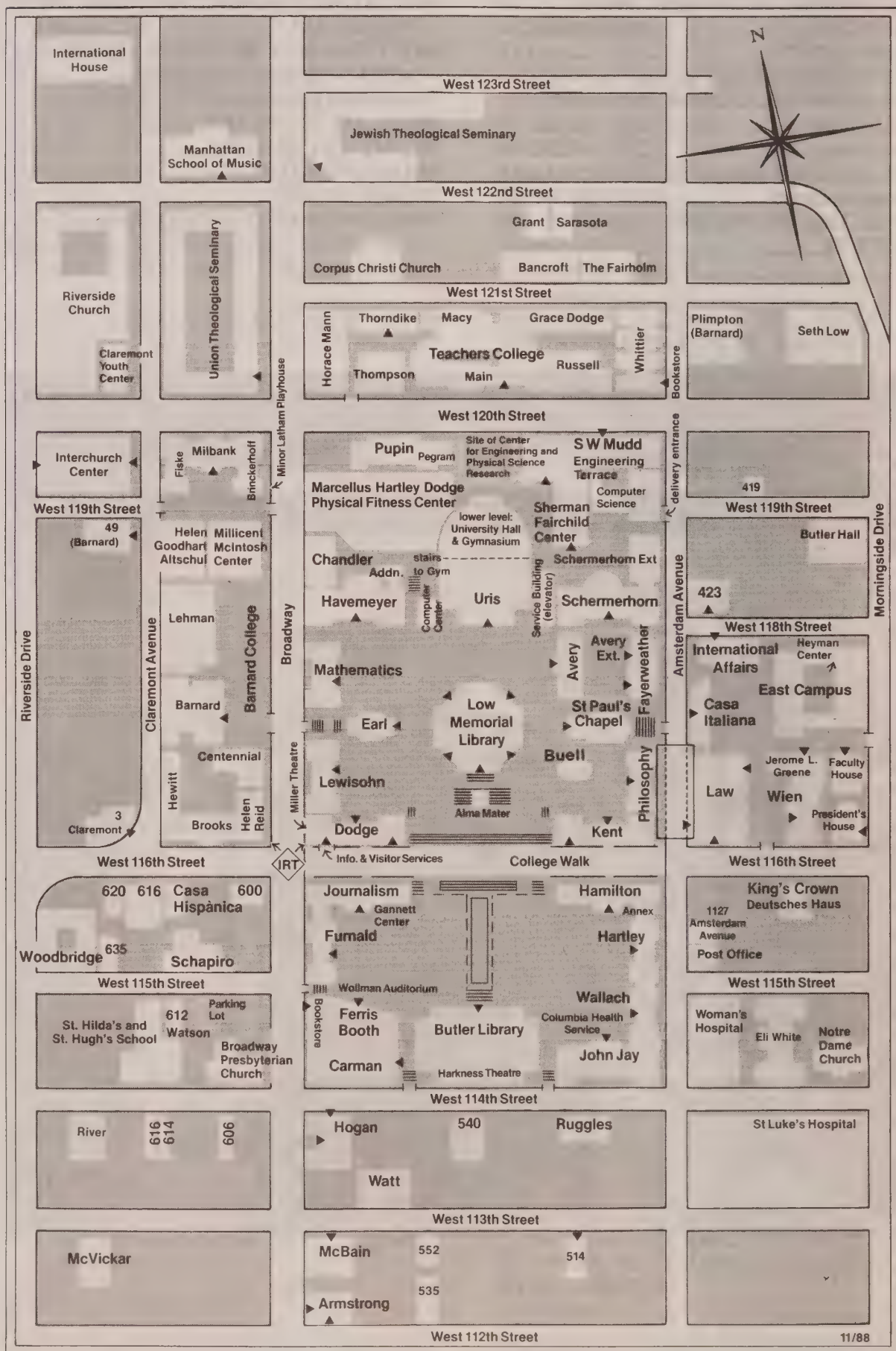
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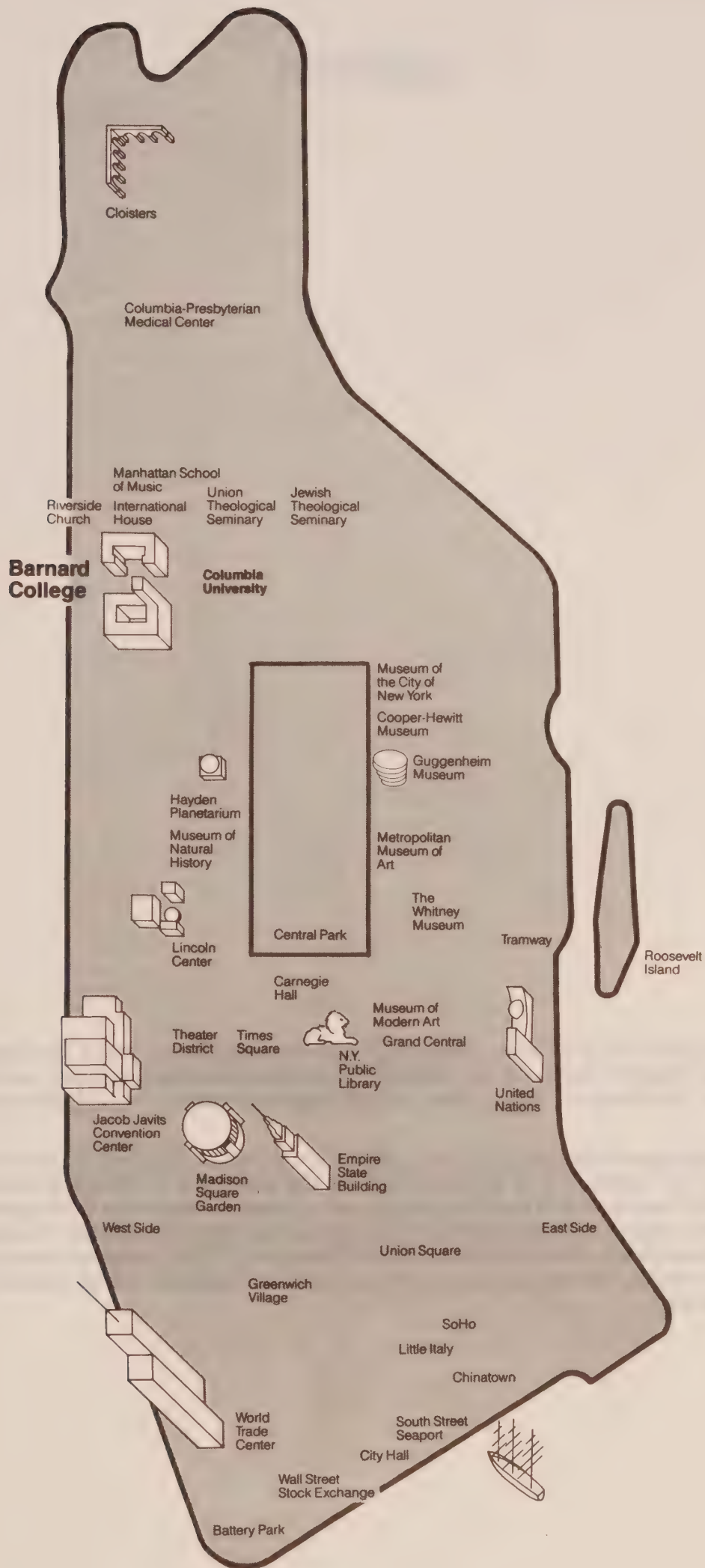
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